

=&gt; d his nofil

(FILE 'HOME' ENTERED AT 15:18:03 ON 26 SEP 2006)

FILE 'HCAPLUS' ENTERED AT 15:26:06 ON 26 SEP 2006

E US2005-537556/APPS

L1 1 SEA ABB=ON PLU=ON US2005-537556/AP  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:26:34 ON 26 SEP 2006

L2 1 SEA ABB=ON PLU=ON 25322-68-3/BI

FILE 'HCAPLUS' ENTERED AT 15:26:43 ON 26 SEP 2006

L3 1 SEA ABB=ON PLU=ON L1 AND L2

FILE 'REGISTRY' ENTERED AT 15:29:05 ON 26 SEP 2006

L4 STR

L5 1 SEA SSS SAM L4

D SCA

L6 506035 SEA ABB=ON PLU=ON NC=1 AND C>10 AND N/ELS NOT RSD/FA

L7 5 SEA SUB=L6 SSS SAM L4

L8 1553 SEA SUB=L6 SSS FUL L4

DEL SEL Y

SEL RN L8 1-800

DEL SEL Y

L9 1509 SEA ABB=ON PLU=ON L8/COM

SEL RN L9 1-800

L10 946 SEA ABB=ON PLU=ON (707532-87-4/CRN OR 707534-27-8/CRN OR  
708200-38-8/CRN OR 709603-03-2/CRN OR 709606-82-6/CRN OR  
711594-32-0/CRN OR 711602-96-9/CRN OR 713131-05-6/CRN OR  
713479-29-9/CRN OR 714187-26-5/CRN OR 716306-21-7/CRN OR  
716310-92-8/CRN OR 717091-24-2/CRN OR 717816-93-8/CRN OR  
717820-57-0/CRN OR 718590-89-7/CRN OR 718596-53-3/CRN OR  
718596-96-4/CRN OR 718597-12-7/CRN OR 719265-87-9/CRN OR  
719987-34-5/CRN OR 719993-88-1/CRN OR 720656-77-9/CRN OR  
723235-54-9/CRN OR 723236-65-5/CRN OR 724416-89-1/CRN OR  
724419-37-8/CRN OR 725684-91-3/CRN OR 726120-21-4/CRN OR  
726123-56-4/CRN OR 726125-47-9/CRN OR 727357-52-0/CRN OR  
727645-13-8/CRN OR 727970-73-2/CRN OR 727972-24-9/CRN OR  
727973-21-9/CRN OR 728853-57-4/CRN OR 728855-55-8/CRN OR  
728857-52-1/CRN OR 729553-95-1/CRN OR 729555-64-0/CRN OR  
729555-73-1/CRN OR 730233-27-9/CRN OR 730235-08-2/CRN OR  
730915-03-4/CRN OR 730915-99-8/CRN OR 731756-26-6/CRN OR  
731758-55-7/CRN OR 731761-75-4/CRN OR 731765-76-7/CRN OR  
732183-04-9/CRN OR 732187-78-9/CRN OR 732188-23-7/CRN OR  
732189-24-1/CRN OR 732202-47-0/CRN OR 732204-33-0/CRN OR  
732925-35-8/CRN OR 732928-89-1/CRN OR 732935-44-3/CRN OR  
732936-78-6/CRN OR 732938-67-9/CRN OR 732950-50-4/CRN OR  
732955-86-1/CRN OR 732983-33-4/CRN OR 733702-82-4/CRN OR  
733710-03-7/CRN OR 733710-30-0/CRN OR 733713-84-3/CRN OR  
733737-98-9/CRN OR 734470-80-5/CRN OR 734473-60-0/CRN OR  
734480-61-6/CRN OR 734483-98-8/CRN OR 734504-28-0/CRN OR  
734517-49-8/CRN OR 734522-80-6/CRN OR 735214-15-0/CRN OR  
735215-17-5/CRN OR 735217-27-3/CRN OR 735240-92-3/CRN OR  
735242-62-3/CRN OR 735245-75-7/CRN OR 736075-31-3/CRN OR  
736080-38-9/CRN OR 736082-17-0/CRN OR 736093-83-7/CRN OR  
736095-77-5/CRN OR 736119-57-6/CRN OR 736864-90-7/CRN OR  
736870-71-6/CRN OR 736879-99-5/CRN OR 736888-27-0/CRN OR  
736893-04-2/CRN OR 736893-59-7/CRN OR  
DEL SEL Y

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SEL RN L9 801-1509
L11      6547 SEA ABB=ON  PLU=ON  (100362-70-7/CRN OR 100362-86-5/CRN OR
100362-88-7/CRN OR 100415-03-0/CRN OR 101148-34-9/CRN OR
101174-07-6/CRN OR 101818-80-8/CRN OR 10182-91-9/CRN OR
10182-92-0/CRN OR 101848-76-4/CRN OR 101848-79-7/CRN OR
101848-82-2/CRN OR 101901-74-0/CRN OR 101901-75-1/CRN OR
101945-45-3/CRN OR 101958-54-7/CRN OR 102051-13-8/CRN OR
102051-15-0/CRN OR 102243-95-8/CRN OR 102325-67-7/CRN OR
102394-98-9/CRN OR 10328-33-3/CRN OR 103360-47-0/CRN OR
103535-58-6/CRN OR 103714-90-5/CRN OR 103886-95-9/CRN OR
103886-96-0/CRN OR 103886-97-1/CRN OR 103886-98-2/CRN OR
104551-98-6/CRN OR 104552-02-5/CRN OR 105062-55-3/CRN OR
105169-78-6/CRN OR 105375-37-9/CRN OR 105841-27-8/CRN OR
106446-35-9/CRN OR 106446-37-1/CRN OR 106855-18-9/CRN OR
106887-43-8/CRN OR 106968-44-9/CRN OR 107257-41-0/CRN OR
107719-26-6/CRN OR 107879-21-0/CRN OR 107935-55-7/CRN OR
107948-56-1/CRN OR 108145-59-1/CRN OR 108145-65-9/CRN OR
109292-61-7/CRN OR 110371-51-2/CRN OR 111208-68-5/CRN OR
111908-46-4/CRN OR 112617-52-4/CRN OR 113612-25-2/CRN OR
113818-05-6/CRN OR 114034-34-3/CRN OR 115121-32-9/CRN OR
115633-84-6/CRN OR 115687-73-5/CRN OR 116309-98-9/CRN OR
116329-53-4/CRN OR 116843-33-5/CRN OR 117598-71-7/CRN OR
118757-71-4/CRN OR 118812-63-8/CRN OR 118812-65-0/CRN OR
1190-82-5/CRN OR 119087-92-2/CRN OR 119087-94-4/CRN OR
119105-49-6/CRN OR 119150-71-9/CRN OR 119189-85-4/CRN OR
119189-90-1/CRN OR 119189-92-3/CRN OR 119189-94-5/CRN OR
119189-98-9/CRN OR 119190-00-0/CRN OR 119236-16-7/CRN OR
119236-17-8/CRN OR 119301-37-0/CRN OR 119340-13-5/CRN OR
119581-82-7/CRN OR 119597-13-6/CRN OR 120034-86-8/CRN OR
120209-72-5/CRN OR 120502-94-5/CRN OR 120502-96-7/CRN OR
120502-98-9/CRN OR 120503-00-6/CRN OR 120516-81-6/CRN OR
120539-34-6/CRN OR 120559-49-1/CRN OR 120681-97-2/CRN OR
120915-40-4/CRN OR 121143-82-6/CRN OR 1211
DEL SEL Y
L12      8983 SEA ABB=ON  PLU=ON  (L9 OR L10 OR L11)
L13      STR
L14      3 SEA SSS SAM L13
L15      STR L13
L16      0 SEA SSS SAM L15
L17      792063 SEA ABB=ON  PLU=ON  NC=1 AND C>9 AND O>1 NOT RSD/FA
L18      2 SEA SUB=L17 SSS SAM L15
          D SCA
L19      1085 SEA SUB=L17 SSS FUL L15
L20      1085 SEA ABB=ON  PLU=ON  L19/COM
          SEL RN L20 1-999
L21      397 SEA ABB=ON  PLU=ON  (100010-99-9/CRN OR 100385-84-0/CRN OR
100528-62-9/CRN OR 100534-16-5/CRN OR 100537-07-3/CRN OR
101311-05-1/CRN OR 101566-88-5/CRN OR 101566-89-6/CRN OR
101566-90-9/CRN OR 101945-34-0/CRN OR 101945-43-1/CRN OR
102621-57-8/CRN OR 102621-58-9/CRN OR 102868-78-0/CRN OR
103622-85-1/CRN OR 103991-96-4/CRN OR 103991-97-5/CRN OR
103991-98-6/CRN OR 103991-99-7/CRN OR 103992-02-5/CRN OR
104016-56-0/CRN OR 104243-48-3/CRN OR 104308-07-8/CRN OR
104631-66-5/CRN OR 104631-67-6/CRN OR 104631-68-7/CRN OR
104631-69-8/CRN OR 104631-70-1/CRN OR 104631-71-2/CRN OR
104631-72-3/CRN OR 104631-73-4/CRN OR 104631-74-5/CRN OR
104631-75-6/CRN OR 104666-96-8/CRN OR 104666-97-9/CRN OR
105390-70-3/CRN OR 105390-71-4/CRN OR 106226-46-4/CRN OR
106226-57-7/CRN OR 106226-58-8/CRN OR 106226-59-9/CRN OR
106226-60-2/CRN OR 106226-61-3/CRN OR 106369-84-0/CRN OR

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107140-44-3/CRN OR 107280-17-1/CRN OR 107844-98-4/CRN OR  
 109233-62-7/CRN OR 109611-10-1/CRN OR 110199-50-6/CRN OR  
 111037-39-9/CRN OR 111344-02-6/CRN OR 111718-97-9/CRN OR  
 111718-98-0/CRN OR 112065-62-0/CRN OR 113181-09-2/CRN OR  
 113412-43-4/CRN OR 114766-14-2/CRN OR 116245-50-2/CRN OR  
 116464-07-4/CRN OR 116464-11-0/CRN OR 117533-43-4/CRN OR  
 117919-22-9/CRN OR 117919-23-0/CRN OR 117919-24-1/CRN OR  
 117919-25-2/CRN OR 119009-60-8/CRN OR 119277-63-3/CRN OR  
 119360-99-5/CRN OR 119369-96-9/CRN OR 119482-04-1/CRN OR  
 119531-29-2/CRN OR 121214-35-5/CRN OR 121326-25-8/CRN OR  
 121340-90-7/CRN OR 121536-16-1/CRN OR 121560-15-4/CRN OR  
 121602-26-4/CRN OR 121602-27-5/CRN OR 121629-98-9/CRN OR  
 121629-99-0/CRN OR 121905-52-0/CRN OR 121905-53-1/CRN OR  
 122492-37-9/CRN OR 122532-22-3/CRN OR 122532-23-4/CRN OR  
 122532-25-6/CRN OR 122808-54-2/CRN OR 122808-55-3/CRN OR  
 123517-73-7/CRN OR 124403-13-0/CRN OR 126305-33-7/CRN OR  
 126830-51-1/CRN OR 127148-80-5/CRN OR

DEL SEL

SEL RN L20 1000-1085

L22 577 SEA ABB=ON PLU=ON (10020-43-6/CRN OR 1003-02-7/CRN OR  
 10137-98-1/CRN OR 13149-83-2/CRN OR 13149-85-4/CRN OR 13149-86-  
 5/CRN OR 1559-35-9/CRN OR 1559-36-0/CRN OR 1559-37-1/CRN OR  
 1559-38-2/CRN OR 1559-39-3/CRN OR 1559-40-6/CRN OR 1559-46-2/CR  
 N OR 1786-95-4/CRN OR 2136-70-1/CRN OR 2136-71-2/CRN OR  
 2136-72-3/CRN OR 2136-73-4/CRN OR 2136-74-5/CRN OR 2420-29-3/CR  
 N OR 3055-93-4/CRN OR 3055-94-5/CRN OR 3055-95-6/CRN OR  
 3055-96-7/CRN OR 3055-97-8/CRN OR 3055-98-9/CRN OR 3055-99-0/CR  
 N OR 3056-00-6/CRN OR 4403-12-7/CRN OR 4439-32-1/CRN OR  
 4440-54-4/CRN OR 4478-97-1/CRN OR 4484-59-7/CRN OR 4486-31-1/CR  
 N OR 4536-30-5/CRN OR 4669-23-2/CRN OR 4878-79-9/CRN OR  
 5157-04-0/CRN OR 5168-89-8/CRN OR 5168-91-2/CRN OR 5274-61-3/CR  
 N OR 5274-63-5/CRN OR 5274-65-7/CRN OR 5274-66-8/CRN OR  
 5274-68-0/CRN OR 5353-25-3/CRN OR 5353-26-4/CRN OR 5353-27-5/CR  
 N OR 5357-66-4/CRN OR 5507-66-4/CRN OR 5566-86-9/CRN OR  
 5698-39-5/CRN OR 5698-40-8/CRN OR 5703-94-6/CRN OR 5940-87-4/CR  
 N OR 6008-31-7/CRN OR 6008-33-9/CRN OR 6095-58-5/CRN OR  
 6095-59-6/CRN OR 6095-60-9/CRN OR 6193-78-8/CRN OR 6193-79-9/CR  
 N OR 7300-80-3/CRN OR 7300-81-4/CRN OR 7300-82-5/CRN OR  
 7300-84-7/CRN OR 7300-85-8/CRN OR 7455-58-5/CRN OR 7455-59-6/CR  
 N OR 817-19-6/CRN OR 817-20-9/CRN OR 9002-92-0/CRN OR 9004-95-9  
 /CRN OR 9004-98-2/CRN OR 9005-00-9/CRN OR 9035-85-2/CRN OR  
 9040-05-5/CRN OR 9064-14-6/CRN OR 924-01-6/CRN OR 924-02-7/CRN  
 OR 924-03-8/CRN OR 924-06-1/CRN OR 930-08-5/CRN OR 930-09-6/CRN  
 OR 930-10-9/CRN OR 930-12-1/CRN)

L23 1938 SEA ABB=ON PLU=ON (L20 OR L21 OR L22)

L24 STR

L25 76672 SEA ABB=ON PLU=ON C>7 AND C<23 AND O=1 AND NC=1 NOT (N/ELS  
 OR P/ELS OR RSD/FA)

L26 50 SEA SUB=L25 SSS SAM L24

L27 15746 SEA SUB=L25 SSS FUL L24

L28 4 SEA SSS SAM L24

L29 STR

L30 0 SEA SSS SAM L29

L31 1 SEA ABB=ON PLU=ON BENZENE/CN  
 D RSD

L32 61649 SEA ABB=ON PLU=ON "NONYL"

L33 STR L29

L34 3 SEA SSS SAM L33

L35 STR L33

L36 2 SEA SSS SAM L35

September 26,

10/537,556

September 26, 2006

L37 184381 SEA ABB=ON PLU=ON 46.150.18/RID AND O/ELS AND NR=1 AND NC=1  
AND (C AND H AND O)/ELS AND 3/ELC.SUB  
L38 0 SEA SUB=L37 SSS SAM L35  
L39 63 SEA SUB=L37 SSS FUL L35  
SEL RN  
L40 558 SEA ABB=ON PLU=ON (100926-43-0/CRN OR 104-35-8/CRN OR  
104-40-5/CRN OR 104318-83-4/CRN OR 113172-75-1/CRN OR 113172-76  
-2/CRN OR 128961-62-6/CRN OR 129880-79-1/CRN OR 131890-11-4/CRN  
OR 131890-12-5/CRN OR 131890-13-6/CRN OR 131890-14-7/CRN OR  
131890-15-8/CRN OR 136-83-4/CRN OR 139-84-4/CRN OR 139178-14-6/  
CRN OR 14409-72-4/CRN OR 157700-82-8/CRN OR 161697-60-5/CRN OR  
171286-94-5/CRN OR 17692-59-0/CRN OR 178667-52-2/CRN OR  
179827-15-7/CRN OR 20427-84-3/CRN OR 20543-07-1/CRN OR  
20636-48-0/CRN OR 207726-31-6/CRN OR 211947-56-7/CRN OR  
244149-17-5/CRN OR 26027-38-3/CRN OR 27100-13-6/CRN OR  
27942-27-4/CRN OR 29386-59-2/CRN OR 313342-33-5/CRN OR  
34166-38-6/CRN OR 35269-67-1/CRN OR 358730-95-7/CRN OR  
41506-14-3/CRN OR 51437-95-7/CRN OR 51855-05-1/CRN OR 51938-25-  
1/CRN OR 55247-80-8/CRN OR 56761-28-5/CRN OR 66369-72-0/CRN OR  
68058-24-2/CRN OR 70024-53-2/CRN OR 70377-41-2/CRN OR 70377-42-  
3/CRN OR 70377-43-4/CRN OR 7311-27-5/CRN OR 74342-10-2/CRN OR  
74342-11-3/CRN OR 74342-12-4/CRN OR 82000-13-3/CRN OR 823203-28  
-7/CRN OR 823203-30-1/CRN OR 85426-11-5/CRN OR 859768-03-9/CRN  
OR 876305-08-7/CRN OR 93-32-3/CRN OR 93038-53-0/CRN OR  
94237-14-6/CRN OR 94237-15-7/CRN) OR L39  
L41 18240 SEA ABB=ON PLU=ON L23 OR L27 OR L40  
  
FILE 'HCAPLUS' ENTERED AT 16:09:11 ON 26 SEP 2006  
L42 42239 SEA ABB=ON PLU=ON L12  
L43 115277 SEA ABB=ON PLU=ON L41  
L44 4132 SEA ABB=ON PLU=ON L42 AND L43  
  
FILE 'REGISTRY' ENTERED AT 16:09:41 ON 26 SEP 2006  
L45 1 SEA ABB=ON PLU=ON WATER/CN  
SEL RN  
L46 2156 SEA ABB=ON PLU=ON 7732-18-5/CRN OR L45  
  
FILE 'HCAPLUS' ENTERED AT 16:09:56 ON 26 SEP 2006  
L47 2508202 SEA ABB=ON PLU=ON L46 OR WATER  
L\*\*\* DEL 379192 S L46 AND L47  
L48 1651 SEA ABB=ON PLU=ON L44 AND L47  
E QUATERNARY AMMONIUM/CT  
L49 185385 SEA ABB=ON PLU=ON QUATERNARY AMMONIUM COMPOUNDS+PFT,NT/CT  
L50 1443 SEA ABB=ON PLU=ON L49 AND L48  
  
FILE 'REGISTRY' ENTERED AT 16:11:46 ON 26 SEP 2006  
L51 0 SEA ABB=ON PLU=ON L46 AND L12 AND L41  
L52 5 SEA ABB=ON PLU=ON L12 AND L41  
  
FILE 'HCAPLUS' ENTERED AT 16:13:22 ON 26 SEP 2006  
L53 2851 SEA ABB=ON PLU=ON L41(L) SOLVENT  
L54 105 SEA ABB=ON PLU=ON L53 AND L12  
L55 2550 SEA ABB=ON PLU=ON L12(L) COMPOSITION  
L56 11 SEA ABB=ON PLU=ON L55 AND L53  
L57 1144 SEA ABB=ON PLU=ON L47 AND L55  
L58 333 SEA ABB=ON PLU=ON L57 AND L41  
L59 92547 SEA ABB=ON PLU=ON POLYOXYALKYLENES+PFT/CT  
L60 111 SEA ABB=ON PLU=ON L59 AND L58  
E DETERGENTS+PFT/CT  
L61 46860 SEA ABB=ON PLU=ON DETERGENTS+PFT/CT

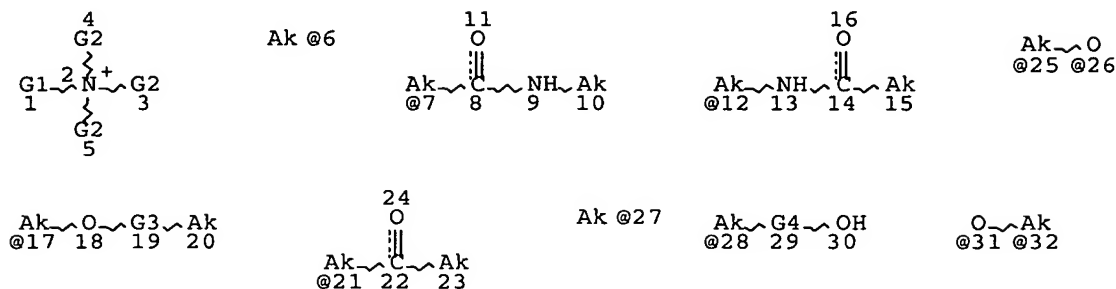


L62 172 SEA ABB=ON PLU=ON L61 AND L59 AND L12  
 L63 71 SEA ABB=ON PLU=ON L62 AND L41  
 L64 80 SEA ABB=ON PLU=ON L63 OR L56  
 L65 58 SEA ABB=ON PLU=ON L64 AND COMPOSITION

## PRIOR ART SEARCH

=&gt; d que 165

L4 STR



VAR G1=6/7/12/17/21

VAR G2=27/28

REP G3=(0-10) 25-18 26-20

REP G4=(0-10) 31-28 32-30

## NODE ATTRIBUTES:

CHARGE IS \*+ AT 2

CONNECT IS E1 RC AT 6

CONNECT IS E2 RC AT 7

CONNECT IS E1 RC AT 10

CONNECT IS E2 RC AT 12

CONNECT IS E1 RC AT 15

CONNECT IS E2 RC AT 17

CONNECT IS E1 RC AT 20

CONNECT IS E2 RC AT 21

CONNECT IS E1 RC AT 23

CONNECT IS E2 RC AT 25

CONNECT IS E1 RC AT 27

CONNECT IS E2 RC AT 28

CONNECT IS E2 RC AT 32

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 28

GGCAT IS SAT AT 32

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M8-X22 C AT 6

ECOUNT IS E3 C AT 7

ECOUNT IS M8-X22 C AT 10

ECOUNT IS E3 C AT 12

ECOUNT IS M8-X22 C AT 15

ECOUNT IS M8-X22 C AT 20

ECOUNT IS E2 C AT 21

ECOUNT IS M8-X22 C AT 23

ECOUNT IS X22 C AT 27

ECOUNT IS M2-X3 C AT 28

ECOUNT IS M2-X3 C AT 32

## GRAPH ATTRIBUTES:

...RING(S) ARE ISOLATED OR EMBEDDED IN ...  
 NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE

L6 506035 SEA FILE=REGISTRY ABB=ON PLU=ON NC=1 AND C>10 AND N/ELS NOT  
 RSD/FA

L8 1553 SEA FILE=REGISTRY SUB=L6 SSS FUL L4

L9 1509 SEA FILE=REGISTRY ABB=ON PLU=ON L8/COM

L10 946 SEA FILE=REGISTRY ABB=ON PLU=ON (707532-87-4/CRN OR 707534-27  
 -8/CRN OR 708200-38-8/CRN OR 709603-03-2/CRN OR 709606-82-6/CRN  
 OR 711594-32-0/CRN OR 711602-96-9/CRN OR 713131-05-6/CRN OR  
 713479-29-9/CRN OR 714187-26-5/CRN OR 716306-21-7/CRN OR  
 716310-92-8/CRN OR 717091-24-2/CRN OR 717816-93-8/CRN OR  
 717820-57-0/CRN OR 718590-89-7/CRN OR 718596-53-3/CRN OR  
 718596-96-4/CRN OR 718597-12-7/CRN OR 719265-87-9/CRN OR  
 719987-34-5/CRN OR 719993-88-1/CRN OR 720656-77-9/CRN OR  
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 724419-37-8/CRN OR 725684-91-3/CRN OR 726120-21-4/CRN OR  
 726123-56-4/CRN OR 726125-47-9/CRN OR 727357-52-0/CRN OR  
 727645-13-8/CRN OR 727970-73-2/CRN OR 727972-24-9/CRN OR  
 727973-21-9/CRN OR 728853-57-4/CRN OR 728855-55-8/CRN OR  
 728857-52-1/CRN OR 729553-95-1/CRN OR 729555-64-0/CRN OR  
 729555-73-1/CRN OR 730233-27-9/CRN OR 730235-08-2/CRN OR  
 730915-03-4/CRN OR 730915-99-8/CRN OR 731756-26-6/CRN OR  
 731758-55-7/CRN OR 731761-75-4/CRN OR 731765-76-7/CRN OR  
 732183-04-9/CRN OR 732187-78-9/CRN OR 732188-23-7/CRN OR  
 732189-24-1/CRN OR 732202-47-0/CRN OR 732204-33-0/CRN OR  
 732925-35-8/CRN OR 732928-89-1/CRN OR 732935-44-3/CRN OR  
 732936-78-6/CRN OR 732938-67-9/CRN OR 732950-50-4/CRN OR  
 732955-86-1/CRN OR 732983-33-4/CRN OR 733702-82-4/CRN OR  
 733710-03-7/CRN OR 733710-30-0/CRN OR 733713-84-3/CRN OR  
 733737-98-9/CRN OR 734470-80-5/CRN OR 734473-60-0/CRN OR  
 734480-61-6/CRN OR 734483-98-8/CRN OR 734504-28-0/CRN OR  
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L11 6547 SEA FILE=REGISTRY ABB=ON PLU=ON (100362-70-7/CRN OR 100362-86  
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 120915-40-4/CRN OR 121143-82-6/CRN OR 1211

L12 8983 SEA FILE=REGISTRY ABB=ON PLU=ON (L9 OR L10 OR L11)  
 L15 STR

Ak~O  
 @5 @6

Ak~O~G2~Ak~OH  
 1 2 3 4 7

REP G2=(0-20) 5-2 6-4

#### NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1  
 CONNECT IS E2 RC AT 4  
 CONNECT IS E2 RC AT 5  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS LIN SAT AT 4  
 GGCAT IS LIN SAT AT 5  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS M8-X22 C AT 1  
 ECOUNT IS M2-X3 C AT 4  
 ECOUNT IS M2-X3 C AT 5

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

#### STEREO ATTRIBUTES: NONE

L17 792063 SEA FILE=REGISTRY ABB=ON PLU=ON NC=1 AND C>9 AND O>1 NOT  
 RSD/FA  
 L19 1085 SEA FILE=REGISTRY SUB=L17 SSS FUL L15  
 L20 1085 SEA FILE=REGISTRY ABB=ON PLU=ON L19/COM  
 L21 397 SEA FILE=REGISTRY ABB=ON PLU=ON (100010-99-9/CRN OR 100385-84  
 -0/CRN OR 100528-62-9/CRN OR 100534-16-5/CRN OR 100537-07-3/CRN  
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L22 577 SEA FILE=REGISTRY ABB=ON PLU=ON (10020-43-6/CRN OR 1003-02-7/  
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 OR 930-09-6/CRN OR 930-10-9/CRN OR 930-12-1/CRN)

L23 1938 SEA FILE=REGISTRY ABB=ON PLU=ON (L20 OR L21 OR L22)  
 L24 STR

Ak~OH  
 1 2

# NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS M8-X22 C AT 1

# GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 2

# STEREO ATTRIBUTES: NONE

L25 76672 SEA FILE=REGISTRY ABB=ON PLU=ON C>7 AND C<23 AND O=1 AND  
 NC=1 NOT (N/ELS OR P/ELS OR RSD/FA)

L27 1.5746 SEA FILE=REGISTRY SUB=L25 SSS FUL L24  
L35 STR

H3C~CH2-CH2-CH2-CH2-CH2-CH2-CH2-CH2-Cb~G1 O~Ak~G2~OH  
11 10 9 8 7 6 5 4 1 2 3 @12 13 14 15

O~Ak  
@16 @17

VAR G1=OH/12  
REP G2=(0-20) 16-13 17-15

#### NODE ATTRIBUTES:

CONNECT IS E2 RC AT 2  
CONNECT IS E2 RC AT 13  
CONNECT IS E2 RC AT 17  
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 2  
GGCAT IS LIN SAT AT 13  
GGCAT IS LIN SAT AT 17  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E6 C AT 2  
ECOUNT IS M2-X3 C AT 13  
ECOUNT IS M2-X3 C AT 17

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 17

#### STEREO ATTRIBUTES: NONE

L37 184381 SEA FILE=REGISTRY ABB=ON PLU=ON 46.150.18/RID AND O/ELS AND  
NR=1 AND NC=1 AND (C AND H AND O)/ELS AND 3/ELC.SUB  
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L40 558 SEA FILE=REGISTRY ABB=ON PLU=ON (100926-43-0/CRN OR 104-35-8/  
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L41 18240 SEA FILE=REGISTRY ABB=ON PLU=ON L23 OR L27 OR L40  
L53 2851 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 (L) SOLVENT  
L55 2550 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 (L) COMPOSITION  
L56 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L55 AND L53  
L59 92547 SEA FILE=HCAPLUS ABB=ON PLU=ON POLYOXYALKYLENES+PFT/CT  
L61 46860 SEA FILE=HCAPLUS ABB=ON PLU=ON DETERGENTS+PFT/CT

L62 172 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L59 AND L12  
 L63 71 SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND L41  
 L64 80 SEA FILE=HCAPLUS ABB=ON PLU=ON L63 OR L56  
 L65 58 SEA FILE=HCAPLUS ABB=ON PLU=ON L64 AND COMPOSITION

=> d 165 ibib abs hitind hitstr 1-58

L65 ANSWER 1 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2006:789622 HCAPLUS Full-text  
 DOCUMENT NUMBER: 145:232306  
 TITLE: Detergent *compositions* slowly soluble in  
 water and method for cleaning therewith  
 INVENTOR(S): Tanaka, Yuiko; Kabashima, Shinichiro; Komatsu,  
 Masanori  
 PATENT ASSIGNEE(S): Lion Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006206882	A2	20060810	JP 2005-366487	20051220
PRIORITY APPLN. INFO.:			JP 2004-377259	A 20041227

AB In the *compns.* comprising (A) dissoln.-delaying components swellable/soluble in water, (B) agents (e.g., surfactants, disinfectants), and (C) solvents, dispersions/solns. of A show tackiness and gradual solubility In cleaning process, the *compns.* are applied on surfaces in contact with water (e.g., toilet bowls, sink drains), to be released gradually from the surfaces. Long-lasting cleaning effect (and other effect according to the agents) can be obtained by the *compns.* Thus, a tile was coated with an aqueous *composition* containing hydroxypropylcellulose (HPC-H),  $\alpha$ -olefin sulfonate (Lipolan LB 440), and mint oil deodorant, showing good adhesion. A test stain on the tile was smoothly and completely removed for  $\geq 40$  times, just by reinsing with water.

CC 46-6 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 42

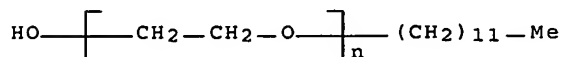
IT Sulfonic acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (1-alkenesulfonic, salts, surfactants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)

IT Cleaning  
 Deodorants  
*Detergents*  
 Disinfectants  
 Surfactants  
 (cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)

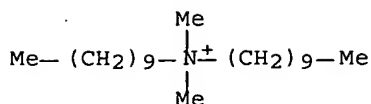
IT Essential oils  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mint, Mentha, deodorants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)

IT *Polyoxyalkylenes*, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (octadecyl esters, dissoln. controllers; cleaning toilet bowls or sink

- drains by coating with detergent *compns.* slowly soluble in water)
- IT Household furnishings  
(sinks, cleaners; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT Coating materials  
(slowly soluble; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT **Detergents**  
(toilet bowl cleaners; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT 9002-92-0, Polyoxyethylene lauryl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(Emalex 720, surfactants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT 9004-64-2, Hydroxypropylcellulose  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(HPC-H, HPC-L, dissoln. controllers; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT 9002-89-5, Poly(vinyl alcohol) 9004-62-0, HEC-SE 900 9004-65-3, Metolose 90SH 4000 9005-08-7, Lionon DT 600S 177646-18-3, Kuraray Poval PVA 235  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(dissoln. controllers; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT 7173-51-5, Arquad 210-80E 9004-82-4, Polyoxyethylene lauryl ether, sulfate, sodium salt 189021-35-0, Lipolan LB 440  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- IT 9002-92-0, Polyoxyethylene lauryl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(Emalex 720, surfactants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- RN 9002-92-0 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



- IT 7173-51-5, Arquad 210-80E  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; cleaning toilet bowls or sink drains by coating with detergent *compns.* slowly soluble in water)
- RN 7173-51-5 HCAPLUS
- CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl -

L65 ANSWER 2 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:494250 HCAPLUS Full-text

DOCUMENT NUMBER: 144:490691

TITLE: Liquid detergent *compositions* with good bleachability and storage stability

INVENTOR(S): Maki, Masataka; Ishizuka, Hitoshi; Yamaguchi, Nobuyoshi; Tase, Yuuichirou

PATENT ASSIGNEE(S): Kao Corporation, Japan

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

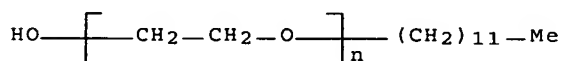
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006054526	A1	20060526	WO 2005-JP20869	20051114
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p>				
JP 2006143907	A2	20060608	JP 2004-336752	20041119
JP 2006169515	A2	20060629	JP 2005-333837	20051118
PRIORITY APPLN. INFO.:			JP 2004-336751	A 20041119
			JP 2004-336752	A 20041119
<p>AB Title liquid detergent <i>compns.</i> with pH at 20° 4.6-7.0 comprise (A) hydrogen peroxide or a compound generating hydrogen peroxide in water, (B) 0.05-1% (based on boron atom) a compound selected from boric acid, borax, and a boric acid salt, (C) 3-35% compound having ≥1 part in which adjacent two carbon atoms each has one hydroxy group, (D) 4-45% surfactant, and (E) 40-70% water, wherein the mole rate of C/B is 1.5-2.7. Thus, a <i>composition</i> comprising hydrogen peroxide 5, boric acid 4, sorbitol 30, Dequest 2010 0.2, polyethylene glycol lauryl ether 10, N-dodecyl-N,N,N-trimethylammonium methylsulfate 0.1, and sodium decanoyloxy-p-benzenesulfonate 1%, and balance water showed good bleachability, pH diluted 1000-folds 8.5, and good hydrogen peroxide storage stability.</p>				
<p>CC 46-6 (Surface Active Agents and Detergents)</p>				
<p>ST liq detergent <i>compn</i> bleachability storage stability; hydrogen</p>				



- peroxide boric acid sorbitol polyoxyalkylene dodecyltrimethylammonium  
methylsulfate *compns*
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl group-terminated, surfactants; liquid detergent *compns.*  
with good bleachability and storage stability)
- IT Glycosides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl; liquid detergent *compns.* with good bleachability and  
storage stability)
- IT **Detergents**  
(bleaching; liquid detergent *compns.* with good bleachability  
and storage stability)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(block, surfactants; liquid detergent *compns.* with good  
bleachability and storage stability)
- IT Surfactants  
(liquid detergent *compns.* with good bleachability and storage  
stability)
- IT Carbohydrates, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(liquid detergent *compns.* with good bleachability and storage  
stability)
- IT **Detergents**  
(liquid; liquid detergent *compns.* with good bleachability and  
storage stability)
- IT Surfactants  
(nonionic; liquid detergent *compns.* with good bleachability and  
storage stability)
- IT 50-70-4, Sorbitol, uses 50-99-7, Glucose, uses 56-81-5, Glycerin, uses  
1303-96-4, Borax 1330-43-4, Sodium tetraborate 7722-84-1, Hydrogen  
peroxide, uses 10043-35-3, Boric acid, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(liquid detergent *compns.* with good bleachability and storage  
stability)
- IT 1643-20-5, Laurylamine oxide 9002-92-0, Polyethylene glycol  
lauryl ether 13623-06-8 27176-87-0D, Laurylbenzenesulfonic  
acid, salts 113609-82-8, Ethylene oxide-propylene oxide block copolymer  
dodecyl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; liquid detergent *compns.* with good bleachability  
and storage stability)
- IT 9002-92-0, Polyethylene glycol lauryl ether 13623-06-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; liquid detergent *compns.* with good bleachability  
and storage stability)
- RN 9002-92-0 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)



RN 13623-06-8 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CMF C H3 O4 S

$$\text{Me}-\text{O}-\text{SO}_3^-$$

CM 2

CMF C15 H34 N

$$\text{Me}_3 + \text{N} - (\text{CH}_2)_{11} - \text{Me}$$

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

DOCUMENT NUMBER: 144:357037

TITLE: Two step hair coloring *compositions*  
comprising fatty components delivering deeper,  
long-lasting color

INVENTOR(S): Chan, Alexander C.; Arcella, Stella; Bartolone, John  
Brian

PATENT ASSIGNEE(S) : Unilever Home & Personal Care Usa, Division of  
Conopco, Inc., USA

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2006075580	A1	20060413	US 2004-963332	20041012
US 7041142	B2	20060509		

PRIORITY APPLN. INFO.: US 2004-963332 20041012

AB A two step method of coloring hair is described. The hair is first contacted for a period of time with a dye precursor mixture containing an oxidative dye, specific fatty components and one or more water miscible organic solvents. Color is then developed in a second step by contacting the hair with one or more oxidizing agents. Greater color intensity and longevity are achieved when the fatty component in the dye precursor mixture contains at least one fatty amine and the fatty ingredients and organic solvents satisfy the relationship,  $\Sigma FC < 0.037(\Sigma OS)^2 - 3.35(\Sigma OS) + 63$ , where  $\Sigma FC$  and  $\Sigma OS$  are the total weight of fatty ingredients and the total weight of water miscible organic solvents, resp., in the precursor mixture. For example, a two step

hair coloring system comprised (i) an oxidative dye precursor *composition* containing water 56.4, citric acid 0.1, p-aminophenol 9.7, 5-amino-o-cresol 0.75, Na2SO3 0.2, KCl 0.01, propylene glycol 9.00, stearamidopropyl dimethylamine 2.0, dicetyldimonium chloride 8.4, Ceteareth-20 4.2, stearyl alc. 1.8, cetyl alc. 14.4, and cyclopentasiloxane 1.8%, resp., and (ii) a developer *composition* containing hydroxypropyl starch phosphate 0.75, stearamidopropyl dimethylamine 0.50, dicetyldimonium chloride 2.10, stearyl alc. 0.30, polyethylene 10 stearyl ether 0.35, Ceteareth-20 0.70, KCl 0.05, EDTA-Na4 0.10, dimethicone fluid 0.10, cyclopentasiloxane 1.80, hydrogen peroxide (50%) 8.00, ammonium hydroxide 5.50, ammonium chloride (20%) 0.96 and water to 100%, resp. A significant effect on the level of color retained by the hair after the dyeing process using the precursor *composition* prepared (containing stearamidopropyl dimethylamine) was observed compared to that of the control *composition* containing no fatty amine.

INCL 008405000

CC 62-3 (Essential Oils and Cosmetics)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C12-22; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C16-18, ethoxylated; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(C2-10; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Surfactants

(anionic; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Hair preparations

(dyes, oxidative; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(fatty, ethoxylated, C12-22; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Amines, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(fatty; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Surfactants

(nonionic; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Esters, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oils; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT Solvents

(organic; two step hair coloring *compns.* comprising oxidative

dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

## IT Dyes

(oxidative, precursors; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

## IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polyhydric, C2-10; two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

## IT Oxidizing agents

(two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

## IT Hydrocarbon oils

Polyoxyalkylenes, biological studies

Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic solvents for delivery of deeper, long-lasting color)

IT 56-81-5, Glycerol, biological studies 57-55-6, Propylene glycol, biological studies 64-02-8, Tetrasodium EDTA 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies 71-23-8, Propanol, biological studies 77-92-9, Citric acid, biological studies 83-56-7, 1,5-Dihydroxynaphthalene 84-87-7, 1-Naphthol-4-sulfonic acid 87-02-5, 1-Hydroxy-6-aminonaphthalene-3-sulfonic acid 87-66-1, Pyrogallol 89-25-8, 1-Phenyl-3-methyl-5-pyrazolone 89-57-6, 5-Aminosalicylic acid 89-83-8, Thymol 90-15-3, 1-Naphthol 90-52-8, 6-Methoxy-8-aminoquinoline 92-44-4, 2,3-Dihydroxynaphthalene 95-55-6, o-Aminophenol 95-70-5, p-Toluenediamine 95-86-3, 2,4-Diaminophenol 95-88-5, 4-Chlororesorcinol 101-54-2, N-Phenyl-p-phenylenediamine 106-50-3, p-Phenylenediamine, biological studies 108-45-2, m-Phenylenediamine, biological studies 108-46-3, Resorcinol, biological studies 112-92-5, Stearyl alcohol 120-80-9, Catechol, biological studies 123-30-8, p-Aminophenol 124-43-6 141-86-6, 2,6-Diaminopyridine 150-75-4, p-Methylaminophenol 294-40-6, Cyclopentasiloxane 498-40-8, Cysteic acid 533-31-3, 3,4-Methylenedioxyphenol 537-65-5, 4,4'-Diaminodiphenylamine 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, m-Aminophenol 605-37-8, 2,3-Dihydroxy-1,4-naphthoquinone 608-25-3, 2-Methylresorcinol 615-66-7, 2-Chloro-p-phenylenediamine 823-40-5, 2,6-Diaminotoluene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 4-Hydroxy-2,5,6-triaminopyrimidine 1336-21-6, Ammonium hydroxide 1812-53-9, Dicetyldimethylammonium chloride 2359-53-7 2835-95-2, 2-Hydroxy-4-aminotoluene 2835-96-3, 2-Methyl-p-aminophenol 2835-98-5 2835-99-6, 3-Methyl-p-aminophenol 3085-95-8 3096-69-3 4664-16-8, 2,6-Dihydroxy-4-methylpyridine 4928-43-2, 2-Dimethylamino-5-aminopyridine 5697-02-9, 1-Acetoxy-2-methylnaphthalene 6201-65-6, 2-Chlororesorcinol 6941-70-4 7207-40-1 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7228-00-4 7447-40-7, Potassium chloride, biological studies 7469-77-4, 2-Methyl-1-naphthol 7575-35-1, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 7632-04-4, Sodium perborate 7651-02-7, Stearamidopropyl dimethylamine 7722-84-1, Hydrogen peroxide, biological studies 7757-82-6, Sodium sulfate, biological studies 7757-83-7, Sodium sulfite 7775-27-1, Sodium persulfate 9004-95-9 9006-65-9, Dimethicone 10288-36-5, 5-Hydroxy-1,4-benzodioxane 12125-02-9, Ammonium chloride, biological studies 14268-66-7, 3,4-Methylenedioxyaniline 15630-89-4, Sodium percarbonate 16153-75-6

16461-98-6, 1H-Pyrazole-3,4-diamine 16867-03-1, 2-Amino-3-hydroxypyridine 17672-22-9 19298-14-7 25322-68-3D; PEG, reaction products with coco fatty amines 26021-57-8, 6-Hydroxybenzomorpholine 29785-47-5, 2-Methoxymethyl-p-aminophenol 36653-82-4, Cetyl alcohol 39346-84-4, Hydroxypropyl starch phosphate 39489-79-7 40771-26-4, 1,5-Dihydroxy-1,2,3,4-tetrahydronaphthalene 42485-84-7, 2-Ethylamino-p-cresol 45514-38-3, 4,5-Diamino-1-methylpyrazole 53222-92-7 53233-89-9, 5-Chloro-2,3-dihydroxypyridine 55302-96-0 70643-19-5, 2-(2,4-Diaminophenoxy)ethanol 71500-42-0, N,N-Bis(2-hydroxyethyl)-m-phenylenediamine 73793-80-3, 2-Hydroxymethyl-p-phenylenediamine 80467-77-2, N-(2-Hydroxypropyl)-p-phenylenediamine 81329-90-0 81892-72-0 83763-47-7 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7 90817-34-8, 3-Amino-2-methylamino-6-methoxypyridine 90817-35-9 94082-77-6 97902-52-8, 2-Isopropyl-p-phenylenediamine 104333-03-1, 3-Amino-5-hydroxy-2,6-dimethoxypyridine 104333-09-7 104752-50-3 104903-49-3 110102-86-8 110952-46-0 115423-86-4 117907-42-3 119004-91-0 129697-50-3 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 141614-04-2 141614-05-3 149330-25-6 155601-17-5 181777-19-5 260981-02-0, N-2-Methoxyethyl-p-phenylenediamine 365226-71-7 461424-71-5 461424-72-6 473260-50-3 583049-04-1 596807-89-5 881685-82-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic *solvents* for delivery of deeper, long-lasting color)

IT 112-92-5, Stearyl alcohol 1812-53-9,  
Dicetyldimethylammonium chloride 9004-95-9 36653-82-4,  
Cetyl alcohol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(two step hair coloring *compns.* comprising oxidative dye, fatty components and water miscible organic *solvents* for delivery of deeper, long-lasting color)

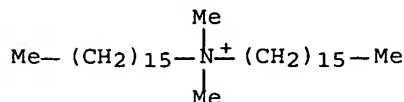
RN 112-92-5 HCAPLUS

CN 1-Octadecanol (8CI, 9CI) (CA INDEX NAME)

HO—(CH<sub>2</sub>)<sub>17</sub>—Me

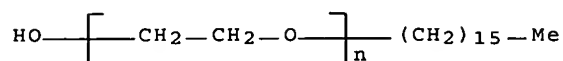
RN 1812-53-9 HCAPLUS

CN 1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



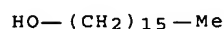
● Cl<sup>-</sup>

RN 9004-95-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hexadecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

RN 36653-82-4 HCAPLUS

CN 1-Hexadecanol (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 4 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1170709 HCAPLUS Full-text

DOCUMENT NUMBER: 143:442112

TITLE: Solvent free water and oil-repellent compositions with good mechanical, chemistry, and long-term shelf stability

INVENTOR(S): Kashiwagi, Masato

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005103176	A1	20051103	WO 2005-JP7236	20050414
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: JP 2004-123775 A 20040420

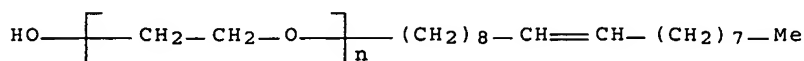
OTHER SOURCE(S): MARPAT 143:442112

AB Title compns. comprise (A) a fluorine-containing copolymer comprising  $\geq 20\%$  units derived from a polymerizable monomer having a C1-6 polyfluoroalkyl group or a polyfluoroalkenyl group, (B) a surfactant component comprising as the essential components a nonionic surfactant with HLB value  $\leq 12$  and a nonionic

surfactant with HLB value 2.5, and (C) an aqueous medium substantially consisting of water. Thus, 2-perfluorobutylethyl methacrylate 43.5, stearyl acrylate 9.2, N-methylolacrylamide 1.2, 3-chloro-2-hydroxypropyl methacrylate 0.6, EBD 12 (nonionic surfactant) with HLB value 12 0.8, LT 221 (nonionic surfactant) with HLB value 17 3.0, stearyltrimethylammonium chloride 1.4, water 86, lauryl mercaptan 0.03, and acetic acid 0.12 g were heated at 60°, homogenized, sonicated, 0.3 g azobisamidinopropane dihydrochloride was added therein and polymerized for 4 h to give 40%-solids water and oil-repellent composition with average particle diameter 163 nm, showing good water and oil-repellency when applied to nylon and polyethylene terephthalate/cotton cloths, and precipitation, mech., and chemical stability.

- IC ICM C09D157-00
- ICS C09D133-16; C09K003-18; D06M015-277
- CC 42-10 (Coatings, Inks, and Related Products)
- ST solvent free water oil repellent mech chem longterm stability;  
fluoroacrylic polymer nonionic surfactant compn
- IT Fatty acids, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(alkoxylated, nonionic surfactant; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Quaternary ammonium compounds, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(cationic surfactant; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Surfactants  
(cationic; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Alcohols, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(ethoxylated, nonionic surfactant; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Acrylic polymers, uses  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(fluoroalkyl group-containing; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Polyoxyalkylenes, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(mono(fatty acyl)-terminated, nonionic surfactant; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Surfactants  
(nonionic; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Coating materials  
(oil- and water-resistant; solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Surfactants  
(solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Polyoxyalkylenes, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)
- IT Fluoropolymers, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(solvent free water and oil-repellent compns. with good mech., chemical, and long-term shelf stability)

- IT Coating materials  
(solventless; solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 9004-98-2, Polyethylene glycol oleyl ether  
RL: MOA (Modifier or additive use); USES (Uses)  
(Nikkol BO 50, nonionic surfactant; *solvent* free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 37311-01-6, Nikkol PBC 44  
RL: MOA (Modifier or additive use); USES (Uses)  
(PBC 44, nonionic surfactant; solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 26266-57-9, Nissan Nonion PP 40R  
RL: MOA (Modifier or additive use); USES (Uses)  
(PP 40R, nonionic surfactant; solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 146225-83-4, Ethoxylated acetylene glycol  
RL: MOA (Modifier or additive use); USES (Uses)  
(Surfynol SF 420, Surfynol SF 485, nonionic surfactant; solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 107-64-2, Distearyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride  
RL: MOA (Modifier or additive use); USES (Uses)  
(cationic surfactant; solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 1338-39-2, LP 20R 9002-92-0, BL 9EX 9003-11-6D, Ethylene oxide-propylene oxide copolymer, alkyl ethers 9005-64-5, LT 221 25322-68-3D, Polyethylene glycol, alkyl ethers 868667-14-5, EBD 12 868668-04-6, Nikkol BT 20 868668-05-7, EBD 9 868668-06-8, EBD 4 868668-14-8, EAD 8  
RL: MOA (Modifier or additive use); USES (Uses)  
(nonionic surfactant; *solvent* free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 868597-65-3P 868597-66-4P 868597-67-5P 868597-68-6P 868597-69-7P 868597-70-0P 868597-71-1P  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(solvent free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- IT 9004-98-2, Polyethylene glycol oleyl ether  
RL: MOA (Modifier or additive use); USES (Uses)  
(Nikkol BO 50, nonionic surfactant; *solvent* free water and oil-repellent *compns.* with good mech., chemical, and long-term shelf stability)
- RN 9004-98-2 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



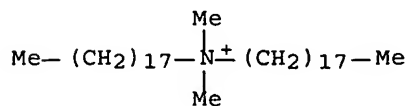
- IT 107-64-2, Distearyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride  
RL: MOA (Modifier or additive use); USES (Uses)



(cationic surfactant; solvent-free water and oil-repellent  
compns. with good mech., chemical, and long-term shelf stability)

RN 107-64-2 HCAPLUS

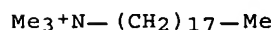
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 112-03-8 HCAPLUS

CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

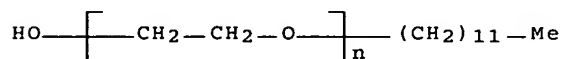
IT 9002-92-0, BL 9EX

RL: MOA (Modifier or additive use); USES (Uses)

(nonionic surfactant; solvent free water and oil-repellent  
compns. with good mech., chemical, and long-term shelf stability)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 5 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:979115 HCAPLUS Full-text

DOCUMENT NUMBER: 143:271955

TITLE: Hair cosmetic *compositions* containing dicarboxylic acid, specified solvents, and fragrance components

INVENTOR(S): Tanaka, Yoshisato; Kamiyama, Kenichi; Tada, Michiko

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

P. 1V6 LANGUAGE? Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005239664	A2	20050908	JP 2004-53709	20040227
PRIORITY APPLN. INFO.:			JP 2004-53709	20040227
OTHER SOURCE(S):	MARPAT 143:271955			

AB The invention relates to a non-rinsing type hair cosmetic *compn*., e.g. a hair mist, gel, lotion, and foam, etc., providing hair texture-improving effect and long-lasting perfume effect, wherein the *composition* is characterized by containing (1) a C2-8 dicarboxylic acid or its salt, (2) an organic solvent with a ClogP 2-3 selected from a group consisting of aromatic alc., N-alkyl pyrrolidone, alkylene carbonate, polypropylene glycol, lactone, and cyclic ketone, and (3) a fragrance component, e.g. acetophenone, allyl phenoxyacetate, anisyl acetate, anisyl acetone, etc., and wherein the 20-fold diluted solution of the *composition* shows a pH 2-5 at 25°. A method for improving hair texture, and a method for perfuming hair with the *composition* are also disclosed. For example, a pump mist *composition* containing malic acid 3.5, malonic acid 1, 2-benzyloxyethanol 2.5, polyvinylpyrrolidone 3, ethanol 10, fragrance (dihydrojasmon/eugenol/ambroxan/coumarin/γ-methylionone/other fragrance components) 0.05, NaOH q.s. to pH 3.7, and water balance to 100 % was formulated.

IC ICM A61K007-06

ICS A61K007-11; A61K007-46

CC 62-4 (Essential Oils and Cosmetics)

IT Carbonates, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(alkylene; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(aralkyl; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Surfactants

(cationic, further components; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Ketones, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cyclic; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Carboxylic acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dicarboxylic, C2-8; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(further components; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Hair preparations

(gels; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Human

Perfumes

(hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)

IT Lactones

Polyoxyalkylenes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

- (hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT Polymers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair-setting, further components; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT Hair preparations  
(lotions; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT Hair preparations  
(mist; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT Hair preparations  
(mousses; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 139504-68-0, 1-(2-tert-Butylcyclohexyloxy)-2-butanol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Amber core; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 33704-61-9, 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Cashmeran; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 67801-20-1, 3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Ebanol; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 107898-54-4, 3,3-Dimethyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Polysantol; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 5471-51-2, 4-(p-Hydroxyphenyl)-2-butanone  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Raspberry ketone; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 28219-60-5, 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Sandal Mysore Core; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(further components; hair cosmetic *compns.* containing dicarboxylic acid, specified solvents, and fragrance components)
- IT 78-70-6, Linalool 81-14-1, Musk ketone 87-19-4, Isobutyl salicylate 88-41-5, O-tert-Butylcyclohexyl acetate 91-64-5, Coumarin 93-08-3, Methyl  $\beta$ -naphthylketone 97-53-0, Eugenol 98-86-2, Acetophenone, biological studies 103-54-8, Cinnamyl acetate 104-20-1, Anisylacetone 110-15-6, Succinic acid, biological studies 119-61-9, Benzophenone, biological studies 120-57-0, Heliotropin 127-41-3,  $\alpha$ -Ionone 134-20-3, Methylanthranilate 151-05-3, Dimethylbenzylcarbinyl acetate 622-08-2, 2-Benzyloxyethanol 705-86-2,  $\delta$ -Decalactone 1128-08-1, Dihydrojasmonone 1331-83-5, Anisylacetate 2511-00-4, Ethyl-2-cyclohexylpropionate 2630-39-9, Methyl dihydrojasmonate 3738-00-9 5146-66-7, Geranyl nitrile 6915-15-7, Malic acid 7388-22-9, Methylionone- $\gamma$  7493-74-5, Allyl phenoxyacetate 25322-69-4, Polypropylene glycol 32388-55-9,

Acetylcedrene 51560-62-2, Citronellyl nitrile 54830-99-3 56973-85-4,  
 $\alpha$ -Dynascone 65443-14-3, 2,2,5-Trimethyl-5-pentylcyclopentanone  
 67801-64-3 68140-53-4 68912-13-0, Tricyclodecenyl propionate  
 71607-27-7 74016-19-6 95962-14-4, Nectaryl 142697-06-1  
 177771-82-3, Ambroxan 863973-97-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair cosmetic *compns.* containing dicarboxylic acid, specified  
*solvents*, and fragrance components)

IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0,  
 Polyoxyethylene lauryl ether

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (further components; hair cosmetic *compns.* containing  
 dicarboxylic acid, specified *solvents*, and fragrance  
 components)

RN 112-03-8 HCAPLUS

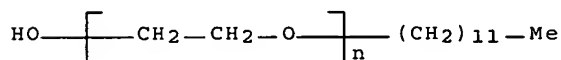
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3\text{N}^+-(\text{CH}_2)_{17}-\text{Me}$

●  $\text{Cl}^-$

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)

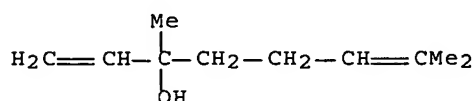


IT 78-70-6, Linalool

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair cosmetic *compns.* containing dicarboxylic acid, specified  
*solvents*, and fragrance components)

RN 78-70-6 HCAPLUS

CN 1,6-Octadien-3-ol, 3,7-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L65 ANSWER 6 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:333814 HCAPLUS Full-text

DOCUMENT NUMBER: 140:359354

TITLE: Granular *composition* for anti-spotting  
 laundry detergent

INVENTOR(S): Kim, Dong-gyu; Sohn, Young-ki; Park, Jang-hyuck; Choi, Won-chul; Joo, Kyung-sik; Lee, Dong-tak; Jung, Yun-taek

PATENT ASSIGNEE(S): CJ Corporation, S. Korea

SOURCE: PCT Int. Appl., 41 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004033611	A1	20040422	WO 2003-KR2090	20031010
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
KR 2004033175	A	20040421	KR 2002-62104	20021011
AU 2003269514	A1	20040504	AU 2003-269514	20031010
PRIORITY APPLN. INFO.:			KR 2002-62104	A 20021011
			WO 2003-KR2090	W 20031010

OTHER SOURCE(S): MARPAT 140:359354

AB Provided is a granular *composition* for anti-spotting laundry detergents that contains a complex salt derived by the reaction of a photo-bleaching component (such as metallo porphyrins, metallo phthalocyanines, and metallo naphthalocyanines) and a cationic surfactant (such as quaternary ammonium compds.). The complex salt is water-insol. when not agitated, for example, during hand washing or pre-soaking for machine washing, thereby suppressing the photo-bleaching agent from permeating and spotting fabric. The complex salt uniformly and rapidly dissolves when agitated by, for example, machine washing, so that the photo-bleaching component adheres to fabric to effect bleaching and washing. The granular *composition* also contains  $\geq 1$  oil absorbent (such as sulfates, carbonates, silicates, and clays) and/or a  $\geq 1$  binder (such as a nonionic surfactant and PEG). A typical complex was manufactured by heating 1400 g methyltriethanolammonium Me sulfate dioleylester with 2300 g polyethylene glycol lauryl ether (EO = 7 mol) at 60° until complete dissoln., and adding 300 g 16% aqueous soln of Na salt of Zn phthalocyaninetetrasulfonic acid in 5 min with stirring.

IC ICM C11D003-395

CC 46-5 (Surface Active Agents and Detergents)

IT Onium compounds

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl) imidazolium, Me sulfates, Varisoft 475, reaction products, with metallic photobleaching agents; granular *compns.* containing salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)

IT Zeolites (synthetic), uses

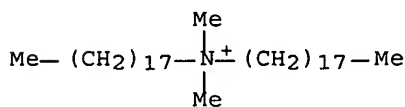
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (P-type, *composition* oil-absorbent; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary

in addition ammonium compds for anti-spotting detergents for pretreatment in machine laundering)

- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (alkyl, phosphites and nitrates, reaction products, with photobleaching agents; granular *compns.* containing salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (bis(hydrogenated tallow alkyl)dimethyl, Me sulfates, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (bis(hydrogenated tallow alkyl)dimethyl, chlorides, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT **Surfactants**  
 (cationic, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT **Polyoxyalkylenes, uses**  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (*composition* binder; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Carbonates, uses  
 Clays, uses  
 Silicates, uses  
 Sulfates, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (*composition* oil-absorbents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (dicoco alkyldimethyl, chlorides, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (dimethylditalow alkyl, Me sulfates, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)

- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (dimethylditallow alkyl, chlorides, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT **Detergents**  
 (laundry, granular; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT **Surfactants**  
 (nonionic, *composition* binders; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting *detergents* for pretreatment in machine laundering)
- IT Bleaching agents  
 (photo-, metallic, reaction products, with quaternary ammonium compds.; granular *compns.* containing salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Metalloporphyrins  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (reaction products, with quaternary ammonium compds.; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT Quaternary ammonium compounds, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (trimethyltallow alkylammonium chlorides, reaction products, with metal dye photobleaching agents; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 107-64-2DP, Dimethyldistearylammmonium chloride, reaction products with sodium zinc phthalocyaninetetrasulfonate  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (Aerosurf TA 101; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 112-02-7DP, Dehyquart A-CA, reaction products with metal dye photobleaching agents  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (Dehyquart A-CA; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 32208-04-1DP, Dehyquart AU-46, reaction products with metal dye photobleaching agents  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (Dehyquart AU-46; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 9002-92-0, Polyethylene glycol lauryl ether 25322-68-3, PEG  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (*composition* binder; granular *compns.* containing complex

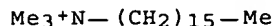
- salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 7757-82-6P, Sodium sulfate, uses  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (composition oil-absorbent; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 27836-01-7DP, reaction products with quaternary ammonium compds.  
 70206-24-5DP, reaction products with sodium zinc phthalocyaninetetrasulfonate 97338-06-2DP, reaction products with sodium zinc phthalocyaninetetrasulfonate 681126-37-4DP, Dehyquart 2415PLV, reaction products with metal dye photobleaching agents 681126-76-1DP, Tinolux BMC, reaction products with quaternary ammonium compds.  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 107-64-2D, Dimethyldioctadecylammonium chloride, reaction products with metal dye photobleaching agents 1812-53-9D, Dihexadecyldimethylammonium chloride, reaction products with metal dye photobleaching agents 23627-89-6D, Naphthalocyanine, metal complexes, reaction products, with quaternary ammonium compds. 26597-36-4D, Didocosyldimethylammonium chloride, reaction products with metal dye photobleaching agents 61601-48-7D, reaction products with metal dye photobleaching agents 71326-37-9D, Dihexadecyldimethylammonium acetate, reaction products with metal dye photobleaching agents 80246-36-2D, Diethyldihexadecylammonium chloride, reaction products with metal dye photobleaching agents 90745-88-3D, tallowoyl-tallowalkyl derivs. 426212-82-0D, reaction products with metal dye photobleaching agents  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- IT 107-64-2DP, Dimethyldistearylammmonium chloride, reaction products with sodium zinc phthalocyaninetetrasulfonate  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (Aerosurf TA 101; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)
- RN 107-64-2 HCAPLUS
- CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



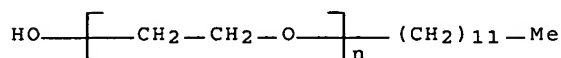
● Cl<sup>-</sup>



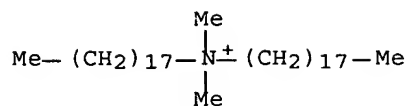
IT 112-02-7DP, Dehyquart A-CA, reaction products with metal dye photobleaching agents  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (Dehyquart A-CA; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)  
 RN 112-02-7 HCAPLUS  
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



IT 9002-92-0, Polyethylene glycol lauryl ether  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (*composition* binder; granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

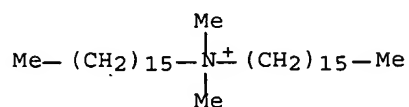


IT 107-64-2D, Dimethyldioctadecylammonium chloride, reaction products with metal dye photobleaching agents 1812-53-9D, Dihexadecyldimethylammonium chloride, reaction products with metal dye photobleaching agents 26597-36-4D, Didocosyldimethylammonium chloride, reaction products with metal dye photobleaching agents 71326-37-9D, Dihexadecyldimethylammonium acetate, reaction products with metal dye photobleaching agents 80246-36-2D, Diethyldihexadecylammonium chloride, reaction products with metal dye photobleaching agents  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (granular *compns.* containing complex salts of photobleaching metal complexes and quaternary ammonium compds. for anti-spotting detergents for pretreatment in machine laundering)  
 RN 107-64-2 HCAPLUS  
 CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



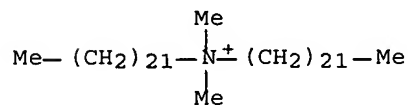
RN 1812-53-9 HCAPLUS

CN 1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 26597-36-4 HCAPLUS

CN 1-Docosanaminium, N-docosyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



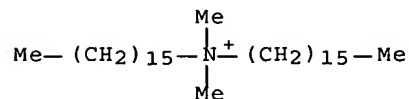
RN 71326-37-9 HCAPLUS

CN 1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, acetate (9CI) (CA INDEX NAME)

CM 1

CRN 42187-36-0

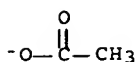
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CM 2

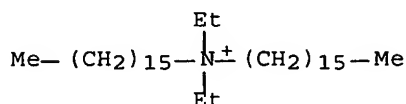
CRN 71-50-1

CMF C2 H3 O2



RN 80246-36-2 HCAPLUS

CN 1-Hexadecanaminium, N,N-diethyl-N-hexadecyl-, chloride (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 7 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:159450 HCAPLUS Full-text

DOCUMENT NUMBER: 140:201493

TITLE: Hard-surface cleaning *compositions* containing nonionic surfactants, polymers, and carboxylic acids

INVENTOR(S): Miyazawa, Megumi; Sado, Mitsuo

PATENT ASSIGNEE(S): Johnson Professional K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2004059806	A2	20040226	JP 2002-221928	20020730
PRIORITY APPLN. INFO.:			JP 2002-221928	20020730

AB The *compns.* (pH 6-8), useful for cleaning of bathrooms, bathtubs, etc., contain (A) nonionic surfactants selected from alkyl polyglucosides, polyoxyalkylene alkyl ethers, and polyoxyalkylene alkenyl ethers 0.1-30, (B) acrylic acid polymer, acrylic acid-maleic acid copolymer, and/or their salts 0.01-15, (C) hydroxypolycarboxylic acids, aminocarboxylic acids, and/or their salts 0.1-20, water-soluble solvents 0.1-30 weight%, and H<sub>2</sub>O. Thus, a

composition (pH 7) containing an alkyl polyglucoside 5.0, ethoxylated C10 oxo alc. 2.0, ethoxylated C9-11 linear alc. 1.0, Na polyacrylate (average mol. weight 4000) 2.0, citric acid 3.0, diethylene glycol monobutyl ether 5.0, limonene 0.5, and H2O to 100 weight% showed good detergency in removal of soap scum, good foaming and rinse-off properties, and no precipitation or discoloration after 3-mo storage at 50° or after freezing-thawing cycles and did not cause corrosion of Al.

- IC ICM C11D017-08
- ICS C11D001-62; C11D001-68; C11D001-72; C11D003-20; C11D003-32;  
C11D003-33; C11D003-37; C11D003-43
- CC 46-6 (Surface Active Agents and Detergents)
- ST hard surface cleaning surfactant polyacrylate carboxylate;  
hydroxypolycarboxylate aminocarboxylate nonionic surfactants cleaning  
compn; bathtub cleaning polyglucoside polyoxyalkylene ether  
surfactant
- IT Alcohols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkoxylated; neutral detergent compns. containing surfactants,  
polymers, carboxylic acids, and aqueous solvents for cleaning of hard  
surfaces, e.g., bathrooms and bathtubs)
- IT Glycosides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl polyglycosides; neutral detergent compns. containing  
surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning  
of hard surfaces, e.g., bathrooms and bathtubs)
- IT Quaternary ammonium compounds, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkylbenzyltrimethyl, chlorides; neutral detergent compns.  
containing surfactants, polymers, carboxylic acids, and aqueous solvents  
for  
cleaning of hard surfaces, e.g., bathrooms and bathtubs)
- IT Buildings  
(bathrooms; neutral detergent compns. containing surfactants,  
polymers, carboxylic acids, and aqueous solvents for cleaning of hard  
surfaces, e.g., bathrooms and bathtubs)
- IT Surfactants  
(cationic; neutral detergent compns. containing surfactants,  
polymers, carboxylic acids, and aqueous solvents for cleaning of hard  
surfaces, e.g., bathrooms and bathtubs)
- IT Detergents  
(cleaning compns.; neutral detergent compns. containing  
surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning  
of hard surfaces, e.g., bathrooms and bathtubs)
- IT Glycols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(ethers, solvents; neutral detergent compns. containing  
surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning  
of hard surfaces, e.g., bathrooms and bathtubs)
- IT Ethers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(glycol, solvents; neutral detergent compns. containing  
surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning  
of hard surfaces, e.g., bathrooms and bathtubs)
- IT Ketones, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(hydroxy, C10, ethoxylated; neutral detergent compns. containing  
surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning  
of hard surfaces, e.g., bathrooms and bathtubs)
- IT Carboxylic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)

(hydroxy, polycarboxylic; neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs).

IT **Polyoxyalkylenes, uses**

RL: TEM (Technical or engineered material use); USES (Uses)  
(mono(alkyl group)-terminated; neutral detergent *compns.*

containing surfactants, polymers, carboxylic acids, and aqueous solvents

for

cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Polyoxyalkylenes, uses**

RL: TEM (Technical or engineered material use); USES (Uses)  
(monoalkyl ethers; neutral detergent *compns.* containing

surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Bathtubs**

(neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Amino acids, uses**

Quaternary ammonium compounds, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Surfactants**

(nonionic; neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Alcohols, uses**

Terpenes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(solvents; neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT **Solvents**

(water-soluble; neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT 57-55-6, Propylene glycol, uses 64-17-5, Ethanol, uses 77-92-9, Citric acid, uses 100-51-6, Benzyl alcohol, uses 107-64-2, Distearyltrimethylammonium chloride 112-00-5, Lauryltrimethylammonium chloride 112-34-5, Diethylene glycol monobutyl ether 138-86-3, Limonene 150-38-9, EDTA trisodium salt 526-95-4, Gluconic acid 872-50-4, N-Methyl-2-pyrrolidone, uses 1320-67-8, Propylene glycol monomethyl ether 5064-31-3, NTA trisodium salt 7173-51-5, Didecyltrimethylammonium chloride 9003-01-4, Poly(acrylic acid) 9003-04-7, Sodium polyacrylate 9005-00-9, Polyethylene glycol octadecyl ether 9063-06-3, Ethylene oxide-propylene oxide copolymer monomethyl ether 25322-68-3D, Polyethylene glycol, monoalkyl ethers 29132-58-9, Acrylic acid-maleic acid copolymer 34590-94-8, Dipropylene glycol monomethyl ether 41593-38-8, Propylene glycol monophenyl ether 56539-66-3, 3-Methyl-3-methoxybutanol 60472-42-6, Acrylic acid-maleic acid copolymer sodium salt 164462-16-2 210420-85-2, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous solvents for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

IT 107-64-2, Distearyltrimethylammonium chloride 112-00-5,

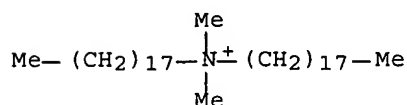
Lauryltrimethylammonium chloride 7173-51-5,

Didecyldimethylammonium chloride 9005-00-9, Polyethylene glycol octadecyl ether 210420-85-2, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(neutral detergent *compns.* containing surfactants, polymers, carboxylic acids, and aqueous *solvents* for cleaning of hard surfaces, e.g., bathrooms and bathtubs)

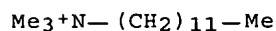
RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



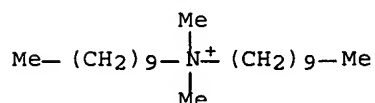
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



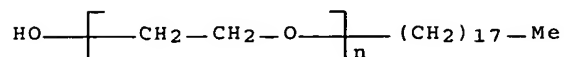
RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-octadecyl-ω-hydroxy- (9CI) (CA INDEX NAME)

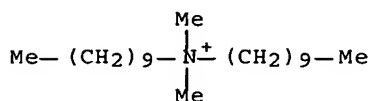


RN 210420-85-2 HCAPLUS  
 CN 1-Decanaminium, N-decyl-N,N-dimethyl-, hexanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 20256-56-8

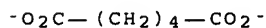
CMF C22 H48 N



CM 2

CRN 764-65-8

CMF C6 H8 O4



L65 ANSWER 8 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:142922 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:186964  
 TITLE: Silicone-containing hair detergent  
*compositions*  
 INVENTOR(S): Terada, Eiji  
 PATENT ASSIGNEE(S): Kao Corporation, Japan  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014327	A1	20040219	WO 2003-JP10139	20030808
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

EF RJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, ON, TD, TG  
 JP 2004067639 A2 20040304 JP 2002-232733 20020809  
 AU 2003256072 A1 20040225 AU 2003-256072 20030808  
 EP 1534223 A1 20050601 EP 2003-784613 20030808  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 CN 1674858 A 20050928 CN 2003-818779 20030808  
 US 2006166845 A1 20060727 US 2005-522620 20050131  
 PRIORITY APPLN. INFO.: JP 2002-232733 A 20020809  
 WO 2003-JP10139 W 20030808

OTHER SOURCE(S): MARPAT 140:186964

AB A hair detergent *composition* is provided comprising (a) an anionic surfactant, (b) a carboxylic acid selected from hydroxymonocarboxylic acids, dicarboxylic acids and hydroxydicarboxylic acids, or a salt thereof, and (c) a silicone derivative having a group containing both a hydroxy group and a nitrogen atom as a side chain thereof bonded to a silicon atom. The hair detergent *composition* provides rich foaming during shampooing and at the same time is capable of giving excellent conditioning effects and luster to the hair. For example, a conditioning shampoo was prepared containing (by weight) sodium polyoxyethylene (2) lauryl ether sulfate 11.0, lactic acid 0.75, malic acid 0.25, silicone derivative (Conditioning Agent 8500 from Dow Corning) 1.0, polypropylene glycol (Mw = 400) 0.5, cocoamidopropyl betaine 3.0, cocamide MEA 0.5, ethylene glycol distearyl ester 1.0, cationized guar gum (Jaguar C-13S) 0.4, NaCl 0.3, perfume, aqueous solution of NaOH as needed, and water to 100%. The shampoo thus obtained (having pH 3.9 when diluted to 20 times the weight) was excellent in smoothness during the period of time from foaming to rinsing, smoothness after drying and luster.

IC ICM A61K007-075

CC 62-3 (Essential Oils and Cosmetics)

IT *Detergents*

(hair conditioning shampoos containing polysiloxane and carboxylate)

IT Carboxylic acids, biological studies

*Polyoxyalkylenes, biological studies*

Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair conditioning shampoos containing polysiloxane and carboxylate)

IT 50-21-5, Lactic acid, biological studies 56-81-5, Glycerin, biological studies 57-55-6, Propylene glycol, biological studies 60-12-8, Phenethyl alcohol 64-17-5, Ethanol, biological studies 67-63-0, 2-Propanol, biological studies 71-23-8, 1-Propanol, biological studies 71-36-3, Butanol, biological studies 78-83-1, Isobutanol, biological studies 79-14-1, Glycolic acid, biological studies 87-69-4, Tartaric acid, biological studies 88-99-3, Phthalic acid, biological studies 96-48-0,  $\gamma$ -Butyrolactone 96-49-1, Ethylene carbonate 100-51-6, Benzyl alcohol, biological studies 104-54-1, Cinnamyl alcohol 105-13-5, p-Anisyl alcohol 107-21-1, Ethylene glycol, biological studies 107-88-0, 1,3-Butanediol 108-29-2,  $\gamma$ -Valerolactone 108-32-7, Propylene carbonate 108-94-1, Cyclohexanone, biological studies 110-15-6, Succinic acid, biological studies 110-16-7, Maleic acid, biological studies 110-17-8, Fumaric acid, biological studies 110-94-1, Glutaric acid 111-77-3, Methylcarbitol 111-90-0, Ethyl carbitol 112-34-5, Butyl carbitol 112-50-5, Triethylene glycol monoethyl ether 112-72-1, Myristyl alcohol 120-92-3, Cyclopentanone 122-99-6, Phenoxyethanol 124-04-9, Adipic acid, biological studies 141-82-2, Malonic acid, biological studies 143-22-6, Triethylene glycol monobutyl ether 144-62-7, Oxalic acid, biological studies 151-21-3, Sodium lauryl sulfate, biological studies 473-81-4, Glyceric acid 502-42-1, Cycloheptanone 542-28-9,  $\delta$ -Valerolactone 589-18-4, p-Methylbenzyl alcohol 622-08-2,



2-Benzoyloxyethanol 627-83-8, Ethylene glycol distearate 695-06-7,  
 γ-Caprolactone 823-22-3, δ-Caprolactone 872-50-4,  
 N-Methylpyrrolidone, biological studies 2687-94-7, N-Octylpyrrolidone  
 2687-96-9 3301-90-4, δ-Heptanolactone 5452-36-8,  
 4-Methylcycloheptanone 6881-94-3, Propyl carbitol 6915-15-7, Malic  
 acid 9004-82-4, Sodium polyoxyethylene lauryl ether sulfate 9016-00-6,  
 Dimethyl polysiloxane 17301-53-0, Behenyltrimonium chloride  
 25322-69-4, Polypropylene glycol 35054-79-6, Hydroxybutyric acid  
 36653-82-4, Cetanol 65497-29-2, Jaguar C-13S 81859-24-7, UCare  
 Polymer JR-400 111937-70-3, Hydroxyacrylic acid  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioning shampoos containing polysiloxane and carboxylate)  
 IT 112-72-1, Myristyl alcohol 17301-53-0, Behenyltrimonium  
 chloride 36653-82-4, Cetanol  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair conditioning shampoos containing polysiloxane and carboxylate)  
 RN 112-72-1 HCAPLUS  
 CN 1-Tetradecanol (8CI, 9CI) (CA INDEX NAME)

HO—(CH<sub>2</sub>)<sub>13</sub>—Me

RN 17301-53-0 HCAPLUS  
 CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub><sup>+</sup>N—(CH<sub>2</sub>)<sub>21</sub>—Me

● Cl<sup>-</sup>

RN 36653-82-4 HCAPLUS  
 CN 1-Hexadecanol (9CI) (CA INDEX NAME)

HO—(CH<sub>2</sub>)<sub>15</sub>—Me

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 9 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:57599 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:78870  
 TITLE: Dry cleaning detergent *composition* imparting  
 no corrosion to washing apparatus  
 INVENTOR(S): Shigenaka, Yoshinobu; Moritani, Hitoshi; Aramaki,  
 Masahiro  
 PATENT ASSIGNEE(S): Mihama Co., Ltd., Japan; Daiichi Kogyo Seiyaku Co.,  
 Ltd.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004018789	A2	20040122	JP 2002-179120	20020619
PRIORITY APPLN. INFO.:			JP 2002-179120	20020619

AB The **composition** using a washing medium of C1-3 1-bromoalkanes comprises (A) ethoxylated higher alc. phosphate esters, (B) fatty acid alkanolamides, and (C) epoxides. A **composition** contained polyoxyethylene lauryl ether phosphate 15, coco fatty acid diethanolamide 10, 1,2-butyleneoxide 5, lauryldimethylethylammonium ethylsulfate 15, polyoxyethylene nonylphenyl ether 10, diethanolamine 5, water 5, and 1-bromopropane 35 parts.

IC ICM C11D003-24  
 ICS C11D001-34; C11D001-52; C11D001-62; C11D003-20; C11D017-08;  
 D06L001-04

CC 46-6 (Surface Active Agents and Detergents)

IT Amides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (N-(hydroxyalkyl); dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

IT Epoxides  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

IT **Detergents**  
 (dry-cleaning; dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

IT **Polyoxyalkylenes, uses**  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (phosphaates; dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

IT 106-88-7, 1,2-Butyleneoxide 106-94-5, 1-Bromopropane 111-42-2, Diethanolamine, uses 111-42-2D, Diethanolamine, coco fatty acid amide 577-11-7, Sodium dioctylsulfosuccinate 3006-13-1 9016-45-9, Polyoxyethylene nonylphenyl ether 39464-66-9, Polyoxyethylene lauryl ether phosphate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

IT 3006-13-1 39464-66-9, Polyoxyethylene lauryl ether phosphate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dry cleaning detergent **composition** imparting no corrosion to washing apparatus)

RN 3006-13-1 HCAPLUS

CN 1-Dodecanaminium, N-ethyl-N,N-dimethyl-, ethyl sulfate (9CI) (CA INDEX NAME)

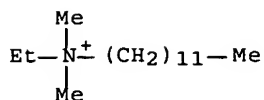
CM 1

CRN 48028-76-8  
 CMF C2 H5 O4 S

CM 2

CRN 45207-46-3

CMF C16 H36 N



RN 39464-66-9 HCAPLUS

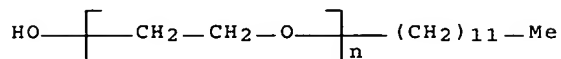
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy-, phosphate  
(9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

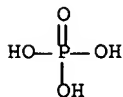
CCI PMS



CM 2

CRN 7664-38-2

CMF H3 O4 P



L65 ANSWER 10 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:559957 HCAPLUS Full-text

DOCUMENT NUMBER: 139:119050

TITLE: Liquid laundry detergents having softening effect

INVENTOR(S): Isada, Junko; Toda, Masayuki; Kikukawa, Masazumi

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003206500	A2	20030722	JP 2002-6668	20020115

PRIORITY APPLN. INFO.: JP 2002-6668 20020115

AB Liquid laundry detergents contain nonionic surfactants (a) 10-50, long-chain amines (b) 0.5-5, and di-long-chain alkyl-type cationic surfactants (c) 0.1-5% at b/c molar ratios of 0.5-30. A liquid detergent (pH 7) containing ethoxylated Diadol alc. (ethoxylated tridecyl alc.) 45, C15H31CONH(CH2)3NMe2 1, AQ-210 (didecyldimethylammonium chloride) 0.3, EtOH 7, p-toluenesulfonic acid 5, Na benzoate 0.5, tri-Na citrate 0.2, dibutylhydroxytoluene 0.03, a perfume composition 0.2, Kathon CG (isothiazolone solution) 0.01, Acid Yellow 203 0.0001, H2SO4 or NaOH, and H2O to 100% showed high detergency, fabric-softening effect, and no precipitation or separation after 1-mo storage at 5° and did not cause yellowing of a cotton fabric.

IC ICM C11D017-08  
 ICS C11D001-62; C11D001-722; C11D003-30; D06L001-12; D06M013-17; D06M013-224; D06M013-328; D06M013-463

CC 46-5 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 23

IT **Surfactants**  
 (cationic; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT **Detergents**  
 (laundry, liqs.; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT **Polyoxyalkylenes, uses**  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mono(alkyl group)-terminated; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT **Polyoxyalkylenes, uses**  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (monoalkyl ethers; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT **Surfactants**  
 (nonionic; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT 5538-94-3, Dioctyldimethylammonium chloride  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (AQ 208; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT 7173-51-5, Didecyldimethylammonium chloride  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (AQ 210; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT 3401-74-9, Didodecyldimethylammonium chloride  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material

use); USES (Uses):

(AQ 212; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

IT 9002-92-0, Polyethylene glycol dodecyl ether 9006-27-3,  
Polyethylene glycol methyl ether dodecanoate 9043-30-5, Lutensol TO 10  
24938-91-8, Polyethylene glycol tridecyl ether 25322-68-3D,  
Polyethylene glycol, monoalkyl ethers 53467-82-6, Polyethylene glycol  
methyl ether octadecanoate 115628-78-9, Ethylene oxide-propylene oxide  
block copolymer monotrilecyl ether

RL: TEM (Technical or engineered material use); USES (Uses)

(liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

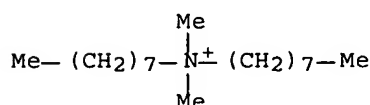
IT 5538-94-3, Dioctyldimethylammonium chloride

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(AQ 208; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

RN 5538-94-3 HCAPLUS

CN 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

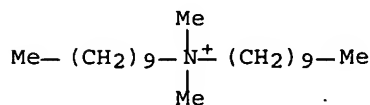
IT 7173-51-5, Didecyldimethylammonium chloride

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(AQ 210; liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

IT 3401-74-9, Didodecyldimethylammonium chloride

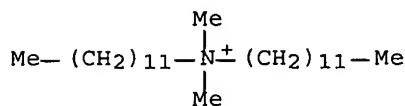
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(AQ 212; liquid laundry detergents having softening effect, containing

nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

RN 3401-74-9 HCAPLUS

CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



IT 9002-92-0, Polyethylene glycol dodecyl ether 24938-91-8,

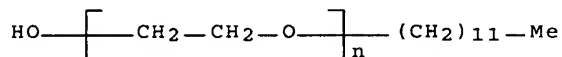
Polyethylene glycol tridecyl ether

RL: TEM (Technical or engineered material use); USES (Uses)

(liquid laundry detergents having softening effect, containing nonionic surfactants, long-chain amines, and quaternary ammonium surfactants)

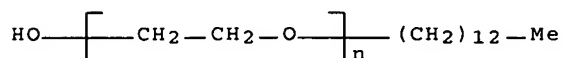
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 24938-91-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 11 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:390135 HCAPLUS Full-text

DOCUMENT NUMBER: 138:387173

TITLE: Detergent *composition* for clothing laundering

INVENTOR(S): Aoyagi, Muneo; Ozaki, Kazuyoshi; Maki, Masataka; Ogura, Nobuyuki

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003147395	A2	20030521	JP 2001-349861	20011115
JP 3751556	B2	20060301		

PRIORITY APPLN. INFO.: JP 2001-349861 20011115

AB The **composition** with good detergency in removing soilings from sebum and protein comprises (A) hydrogen peroxide, (B) penetrants, (C) compds. (c1) having mol. weight <1000 and Ca stability constant (CSC) 3-13 and/or compds. (c2) having mol. weight 1000-100,000 and derived by polymerization of unsatd. carboxyl compds. and (D) water, where the **composition** exhibits pH 9-12 at 20° and requires 40-1000 mL 0.1 N aqueous H2SO4 to neutralize 100 mL of this **composition** to pH 7 at 20°. A **composition** contained hydrogen peroxide 2.5, polyoxyethylene lauryl ether 2.5, ethylene oxide-propylene oxide block copolymer lauryl ether 5, polyoxyethylene lauryl ether sulfate Na salt 0.3, N-tetradecyl-N,N,N-trimethylammonium chloride 0.2, N-lauryl-N,N-dimethyl-N-(2-hydroxy-3-sulfopropyl)ammonium sulfobetaine 0.5, 1-hydroxyethylidene-1,1-diphosphonic acid (CSC 6.8) 0.5, polyacrylic acid Na salt 3, Na2CO3 0.5, K2CO3 4, ethanolamine 2.5, Na lauroyl oxybenzenesulfonate 0.5%, and water the balance, showing pH 10.2 and requiring 0.1 N H2SO4 230 mL for neutralization.

IC ICM C11D003-395  
ICS C11D001-14; C11D001-62; C11D001-72; C11D001-722; C11D001-92; C11D003-36; C11D003-37; C11D017-08; D06L003-02

CC 46-5 (Surface Active Agents and Detergents)

IT Sulfonic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(1-alkenesulfonic, salts, sodium salt; laundering detergent **composition** for removing soilings from sebum and protein)

IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(C12 branched alkyl ether, penetrating agents; laundering detergent **composition** for removing soilings from sebum and protein)

IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl group-terminated, penetrating agents; laundering detergent **composition** for removing soilings from sebum and protein)

IT Penetrating agents  
(laundering detergent **composition** for removing soilings from sebum and protein)

IT Detergents  
(laundry; laundering detergent **composition** for removing soilings from sebum and protein)

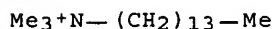
IT 2809-21-4, 1-Hydroxyethylidene-1,1-diphosphonic acid 7722-84-1, Hydrogen peroxide, uses 9003-04-7, Polyacrylic acid sodium salt  
RL: TEM (Technical or engineered material use); USES (Uses)  
(laundering detergent **composition** for removing soilings from sebum and protein)

IT 57-55-6, Propylene glycol, uses 4574-04-3, Tetradecyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether 9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt 13197-76-7 25322-68-3D, C12 branched alkyl ether 113609-82-8, Ethylene oxide-propylene oxide block copolymer lauryl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(penetrating agents; laundering detergent **composition** for removing soilings from sebum and protein)

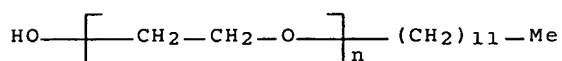
IT 4574-04-3, Tetradecyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(penetrating agents; laundering detergent **composition** for removing soilings from sebum and protein)

RN 4574-04-3 HCAPLUS

CN 1-Tetradecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

L65 ANSWER 12 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:386947 HCAPLUS Full-text

DOCUMENT NUMBER: 138:387172

TITLE: Garment bleaching *composition* for removing tough stains

INVENTOR(S): Aoyagi, Muneo; Ozaki, Kazuyoshi; Maki, Masataka; Ogura, Nobuyuki

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003147394	A2	20030521	JP 2001-349860	20011115
JP 3751555	B2	20060301		

PRIORITY APPLN. INFO.: JP 2001-349860 20011115

AB The *composition* comprises hydrogen peroxide, surfactants, and water, where 40-1000 mL 0.1 N aqueous sulfuric acid is required to neutralize 100 mL this *composition* to pH 7 at 20°. A *composition* contained hydrogen peroxide 2.0, polyoxyethylene lauryl ether 1.5, ethylene oxide-propylene oxide block copolymer lauryl ether 0.8, Na alkylbenzenesulfonate 0.5, Na<sub>2</sub>CO<sub>3</sub> 2.0, NaHCO<sub>3</sub> 1, ethanolamine 0.5, 1-hydroxyethylidene-1,1-diphosphonic acid 0.3%, and water the balance, showing pH 9.7 and bleaching efficiency 76% and requiring 0.1 N H<sub>2</sub>SO<sub>4</sub> 133 mL for neutralization.

ICM C11D003-395

ICS C11D003-39; C11D007-54; C11D017-08; D06L003-02

CC 46-5 (Surface Active Agents and Detergents)

ST bleach *compn* garment hydrogen peroxide; polyoxyethylene lauryl ether bleach *compn* garment

IT Sulfonic acids, uses

RL: TEM (Technical or engineered material use); USES (Uses)



(1-alkenesulfonic, salts, sodium salt; garment bleaching *composition* for removing tough stains)

IT **Polyoxyalkylenes, uses**

RL: TEM (Technical or engineered material use); USES (Uses)  
(C12 branched alkyl ether; garment bleaching *composition* for removing tough stains)

IT **Polyoxyalkylenes, uses**

RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl group-terminated; garment bleaching *composition* for removing tough stains)

IT **Detergents**

(bleaching; garment bleaching *composition* for removing tough stains)

IT Bleaching agents

Surfactants

(garment bleaching *composition* for removing tough stains)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts  
4574-04-3, Tetradecyltrimethylammonium chloride 7722-84-1,  
Hydrogen peroxide, uses 9002-92-0, Polyoxyethylene lauryl ether  
9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt 13197-76-7,  
N-Lauryl-N,N-dimethyl-N-(2-hydroxy-3-sulfopropyl)ammonium sulfobetaine  
25322-68-3D, C12 branched alkyl ether 113609-82-8, Ethylene  
oxide-propylene oxide block copolymer lauryl ether

RL: TEM (Technical or engineered material use); USES (Uses)  
(garment bleaching *composition* for removing tough stains)

IT 4574-04-3, Tetradecyltrimethylammonium chloride 9002-92-0

, Polyoxyethylene lauryl ether

RL: TEM (Technical or engineered material use); USES (Uses)  
(garment bleaching *composition* for removing tough stains)

RN 4574-04-3 HCAPLUS

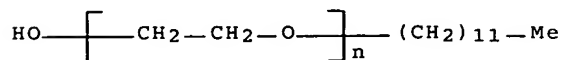
CN 1-Tetradecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N<sup>+</sup>—(CH<sub>2</sub>)<sub>13</sub>—Me

● Cl<sup>-</sup>

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 13 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:369090 HCAPLUS Full-text

DOCUMENT NUMBER: 138:370711

TITLE: Slightly acidic liquid detergent *compositions*

INVENTOR(S): Shimizu, Kazuo

PATENT ASSIGNEE(S): Raku K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp. --  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003138300	A2	20030514	JP 2001-377892	20011107
PRIORITY APPLN. INFO.:			JP 2001-377892	20011107

AB Detergents contain water-soluble surfactants (containing >80% anionic and nonionic at 50-80% anionic and 20-50% nonionic) 20-60, terpene hydrocarbons 2-10, organic acids and salts thereof 0.5-6, and alcs. 3-35% and have pH 3-6. Thus, a detergent contained Na lauryl ether sulfate 30, polyethylene glycol C12 alkyl ether 6, lauryl di-Me acetate betaine 3, D-limonene 8, glycolic acid 3, K glycolate 2, polyethylene glycol 3, propylene glycol 6, and water.

IC ICM C11D017-08  
 ICS A01N025-30; A01N031-04; A01N031-06; A01N037-18; C11D001-83; C11D003-18; C11D003-20; C11D003-43; D06L001-12

CC 46-6 (Surface Active Agents and Detergents)

IT **Surfactants**  
 (amphoteric; slightly acidic liquid *detergents* containing anionic and nonionic surfactants)

IT **Surfactants**  
 (anionic; slightly acidic liquid *detergents* containing anionic and nonionic surfactants)

IT **Polyoxyalkylenes, uses**  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coco fatty acid monoethanolamide derivs.; slightly acidic liquid detergents containing anionic and nonionic surfactants)

IT **Surfactants**  
 (nonionic; slightly acidic liquid *detergents* containing anionic and nonionic surfactants)

IT 102-71-6D, Triethanolamine, coco alkyl sulfate salts 112-00-5, Lauryltrimethylammonium chloride 120-40-1, Lauric acid diethanolamide 141-43-5D, Monoethanolamine, polyethylene glycol coco fatty acid amides 683-10-3, Lauryldimethylbetaine 7664-93-9D, Sulfuric acid, coco alkyl esters, triethanolamine salts 9002-92-0, Polyethylene glycol lauryl ether 9004-82-4, Sodium lauryl ether sulfate 119545-82-3  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (slightly acidic liquid detergents containing anionic and nonionic surfactants)

IT 112-00-5, Lauryltrimethylammonium chloride 9002-92-0, Polyethylene glycol lauryl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (slightly acidic liquid detergents containing anionic and nonionic surfactants)

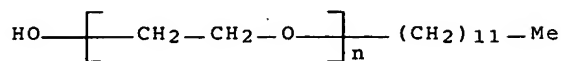
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N—(CH<sub>2</sub>)<sub>11</sub>—Me

● Cl<sup>-</sup>

RN 9002-92-C HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

L65 ANSWER 14 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:147906 HCAPLUS Full-text

DOCUMENT NUMBER: 138:192842

TITLE: Nonaerosol hair foam *compositions* containing organic acids, organic solvents, polysiloxanes, and surfactants

INVENTOR(S): Ogawa, Tae; Horinishi, Nobutaka; Mamada, Akira

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003055160	A2	20030226	JP 2001-243779	20010810
TW 225408	B1	20041221	TW 2002-91117145	20020731
CN 1404818	A	20030326	CN 2002-128578	20020809

PRIORITY APPLN. INFO.: JP 2001-243779 A 20010810

AB The invention relates to a nonaerosol hair foam *composition* having improved foaming property and hair-protecting effect, wherein the *composition* contains (1) an organic acid, (2) an organic solvent selected from a group consisting of benzyl alc., benzyloxyethanol, and propylene carbonate, (3) a polysiloxane, and (4) a surfactant. A hair foam *composition* containing glycolic acid 1, benzyloxyethanol 1, polyoxypropylene diglyceryl ether (SY-DP 9) 1.5, polyoxypropylene sorbit 1, dimethylpolysiloxane 2, polyoxyalkylene dimethylpolysiloxane (KF 353A) 3, amino-modified polysiloxane (KT 1989) 0.5, polyoxyethylene sorbitan monolaurate 3, stearyltrimethylammonium chloride 0.5, propylene glycol 2, fragrance q.s., modified alc. 15, and water balance to 100 % was prepared

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

((aminoethyl)amino)propyl hydroxy, di-Me, SM 8704C; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

((aminomethyl)amino)propyl Me, di-Me, KT 1989; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(amino-containing; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other

ingredients)

IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (di-Me, 3-hydroxypropyl Me, ethoxylated, KF 353A; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Castor oil  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hydrogenated, ethoxylated; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Hair preparations  
 (mousses; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Surfactants  
 (nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Carboxylic acids, biological studies  
 Polyoxyalkylenes, biological studies  
 Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Solvents  
 (organic; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Polysiloxanes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (polyether-; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT Polyethers, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (siloxane-; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT 9016-00-6, Dimethylpolysiloxane  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (BY 22-060; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT 52673-60-6, PP 25  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (PP 25; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT 61710-63-2, SY-DP 9  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (SY-DP 14; nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT 79-14-1, Glycolic acid, biological studies 100-51-6, Benzyl alcohol, biological studies 108-32-7, Propylene carbonate 112-03-8, Stearyltrimethylammonium chloride 622-08-2 6915-15-7, Malic acid 9002-92-0, Polyoxyethylene lauryl ether 9005-12-3, Methylphenylpolysiloxane 9005-64-5, Polyoxyethylene sorbitan monolaurate 25322-69-4, Polypropylene glycol 53694-15-8  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (nonaerosol hair foam *compns.* containing organic acids, organic solvents, polysiloxanes, surfactants, and other ingredients)

IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (nonaerosol hair foam *compns.* containing organic acids, organic

solvents, polysiloxanes, surfactants, and other ingredients)

RN 112-03-8 HCAPLUS

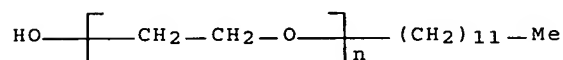
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{17}-\text{Me}$

●  $\text{Cl}^-$

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 15 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:68986 HCAPLUS Full-text

DOCUMENT NUMBER: 138:140890

TITLE: Cleaning *composition* for brass products

INVENTOR(S): Tashiro, Tatsuya; Minegishi, Masakazu

PATENT ASSIGNEE(S): Tokai Corporation, Japan; Nihon Maruseru K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003027266	A2	20030129	JP 2001-209814	20010710
PRIORITY APPLN. INFO.:			JP 2001-209814	20010710

AB A cleaning *composition* for brass products comprises a component (inorg. acid and/or organic acid) for removing oxide film, a corrosion inhibitor selected from cationic surfactants, phosphate surfactants, polycarboxylic acid or salts thereof, and Turkey red oil, and a nonionic surfactant serving as a component providing for formation of mousse-like system. A container is filled with the cleaning *composition* and a liquefied gas for aerosol formation and the *composition* is discharged in the form of a mousse.

IC ICM C23G005-00

ICS B08B003-02; B08B003-08; C11D001-12; C11D001-34; C11D001-40; C11D001-62; C11D001-72; C11D001-722; C11D001-75; C11D003-04; C11D003-20; C11D003-34; C11D003-36; C11D010-02; C11D017-00; C11D017-08

CC 56-6 (Nonferrous Metals and Alloys)

ST cleaning *compn* brass oxide film acid corrosion inhibitor surfactant

IT *Polyoxyalkylenes, uses*

RL: NUU (Other use, unclassified); USES (Uses)

(alkyl derivs.; cleaning *composition* for brass products)

IT Surfactants  
(cationic; cleaning *composition* for brass products)

IT Aerosols  
Corrosion inhibitors  
*Detergents*  
(cleaning *composition* for brass products)

IT Acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(inorg.; cleaning *composition* for brass products)

IT Surfactants  
(nonionic; cleaning *composition* for brass products)

IT Acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(organic; cleaning *composition* for brass products)

IT Carboxylic acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(polycarboxylic; cleaning *composition* for brass products)

IT Castor oil  
RL: NUU (Other use, unclassified); USES (Uses)  
(sulfated; cleaning *composition* for brass products)

IT 24938-91-8  
RL: NUU (Other use, unclassified); USES (Uses)  
(Finesurf TD-80; cleaning *composition* for brass products)

IT 107-64-2, Cation ds 506-59-2D, Dimethylammonium chloride,  
dialkyl derivs. 593-81-7D, Trimethylammonium chloride, alkyl derivs.  
9004-78-8D, Polyoxyethylene phenyl ether, alkyl derivs. 25322-68-3D,  
alkyl derivs. 98825-52-6, Adekacol PS 440E  
RL: NUU (Other use, unclassified); USES (Uses)  
(cleaning *composition* for brass products)

IT 12597-71-6, Brass, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cleaning *composition* for brass products)

IT 56-81-5, Glycerin, uses 57-55-6, Propylene glycol, uses 107-21-1,  
Ethylene glycol, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(moisture-retaining additive; cleaning *composition* for brass  
products)

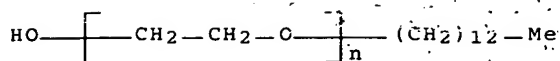
IT 1643-20-5, Lauryldimethylamine oxide 6419-19-8, Aminotrimethylphosphonic  
acid  
RL: NUU (Other use, unclassified); USES (Uses)  
(nonionic surfactant; cleaning *composition* for brass products)

IT 50-21-5, Lactic acid, uses 64-18-6, Formic acid, uses 64-19-7, Acetic  
acid, uses 68-11-1, Thioglycolic acid, uses 79-14-1, Glycolic acid,  
uses 110-15-6, Succinic acid, uses 144-62-7, Oxalic acid, uses  
526-95-4, Gluconic acid 2809-21-4 5329-14-6, Sulfaminic acid  
6303-21-5, Phosphinic acid 6915-15-7, Malic acid 7664-38-2, Phosphoric  
acid, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(oxide film removal component; cleaning *composition* for brass  
products)

IT 24938-91-8  
RL: NUU (Other use, unclassified); USES (Uses)  
(Finesurf TD-80; cleaning *composition* for brass products)

RN 24938-91-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)

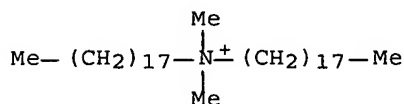


IT 107-64-2, Cation ds

RL: NUU (Other use, unclassified); USES (Uses)  
(cleaning *composition* for brass products)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L65 ANSWER 16 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:68985 HCAPLUS Full-text

DOCUMENT NUMBER: 138:140889

TITLE: Cleaning *composition* for removal of oxide  
film from brass products

INVENTOR(S): Tashiro, Tatsuya; Minegishi, Masakazu

PATENT ASSIGNEE(S): Tokai K. K., Japan; Nihon Marcell K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003027264	A2	20030129	JP 2001-209805	20010710
PRIORITY APPLN. INFO.:			JP 2001-209805	20010710

AB A cleaning *composition* for brass products comprises a component (inorg. acid and/or organic acid) for removing oxide film, a corrosion inhibitor selected from cationic surfactants, phosphate surfactants, polycarboxylic acid or salts thereof, and Turkey red oil, and a nonionic surfactant. The oxide film is effectively removed and its reappearance is prevented.

IC ICM C23G001-06

ICS C11D001-34; C11D001-40; C11D001-62; C11D001-70; C11D001-72;  
C11D001-722; C11D001-75; C11D003-04; C11D003-06; C11D003-20;  
C11D003-34; C11D003-36; C11D003-38; C11D010-02; C23G001-10

CC 56-6 (Nonferrous Metals and Alloys)

ST cleaning *compn* brass oxide film acid corrosion inhibitor  
surfactant

IT *Polyoxyalkylenes, uses*

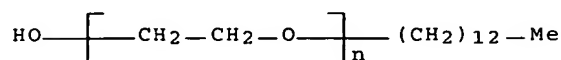
RL: NUU (Other use, unclassified); USES (Uses)

(alkyl derivs.; cleaning *composition* for removal of oxide film

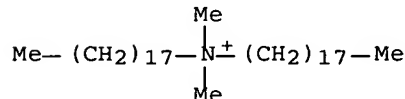
- from brass products)
- IT Surfactants  
(cationic; cleaning *composition* for removal of oxide film from brass products)
- IT Corrosion inhibitors  
*Detergents*  
(cleaning *composition* for removal of oxide film from brass products)
- IT Acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(inorg.; cleaning *composition* for removal of oxide film from brass products)
- IT Surfactants  
(nonionic; cleaning *composition* for removal of oxide film from brass products)
- IT Acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(organic; cleaning *composition* for removal of oxide film from brass products)
- IT Carboxylic acids, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(polycarboxylic; cleaning *composition* for removal of oxide film from brass products)
- IT Castor oil  
RL: NUU (Other use, unclassified); USES (Uses)  
(sulfated; cleaning *composition* for removal of oxide film from brass products)
- IT 24938-91-8  
RL: NUU (Other use, unclassified); USES (Uses)  
(Finesurf TD 80; cleaning *composition* for removal of oxide film from brass products)
- IT 12597-71-6, Brass, processes  
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(cleaning *composition* for removal of oxide film from brass products)
- IT 107-64-2, Cation DS 506-59-2D, Dimethylammonium chloride, dialkyl derivs. 9004-78-8D, Polyoxyethylene phenyl ether, alkyl derivs. 25322-68-3D, alkyl derivs. 98825-52-6, Adekacol PS 440E  
RL: NUU (Other use, unclassified); USES (Uses)  
(cleaning *composition* for removal of oxide film from brass products)
- IT 56-81-5, Glycerin, uses 57-55-6, Propylene glycol, uses 107-21-1, Ethylene glycol, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(moisture-retaining additive; cleaning *composition* for removal of oxide film from brass products)
- IT 1643-20-5, Lauryldimethylamine oxide  
RL: NUU (Other use, unclassified); USES (Uses)  
(nonionic surfactant; cleaning *composition* for removal of oxide film from brass products)
- IT 50-21-5, Lactic acid, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid, uses 68-11-1, Thioglycolic acid, uses 79-14-1, Glycolic acid, uses 110-15-6, Succinic acid, uses 144-62-7, Oxalic acid, uses 526-95-4, Gluconic acid 2809-21-4 5329-14-6, Sulfaminic acid 6303-21-5, Phosphinic acid 6419-19-8, Aminotrimethylphosphonic acid 6915-15-7, Malic acid 7664-38-2, Phosphoric acid, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(oxide film removal component; cleaning *composition* for removal of



oxide film from brass products)  
 IT 593-81-7D, Trimethylammonium chloride, alkyl derivs.  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (washing *composition* for removal of oxide film from brass products)  
 IT 24938-91-8  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (Finesurf TD 80; cleaning *composition* for removal of oxide film from brass products)  
 RN 24938-91-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



IT 107-64-2, Cation DS  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (cleaning *composition* for removal of oxide film from brass products)  
 RN 107-64-2 HCAPLUS  
 CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

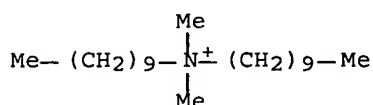


● Cl<sup>-</sup>

L65 ANSWER 17 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:17308 HCAPLUS Full-text  
 DOCUMENT NUMBER: 138:75146  
 TITLE: Toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents  
 INVENTOR(S): Yamaguchi, Toshiyuki; Takahashi, Hitoshi; Tsujioka, Toshitsugu; Okubo, Nobuyuki  
 PATENT ASSIGNEE(S): Permachem Asia, Ltd., Japan; Sumika Color Co., Ltd.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2003002801	A2	20030108	JP 2001-186944	20010620

- PRIORITY APPLN INFO.: JP 2003-355744 20010620
- AB The agents having long-lasting antibacterial, deodorant, and color-hiding effects contain colorant dispersions in which pigments, disperse dyes, and/or oil-soluble dyes are dispersed in nonionic surfactants, cationic surfactants, and/or amphoteric surfactants and cationic antibacterial agents. Thus, a **composition** containing Catiogen DDM (containing 80% didecyldimethylammonium chloride) 15, a blue pigment dispersion [40:10:50 mixture of Sumitone Cyanine Blue RH 3 (C.I. Pigment Blue 15:2), Noigen EA 167 (polyoxyethylene alkylaryl ether), and H2O] 12, polyoxyethylene lauryl ether 3, 2-bromo-2-nitro-1,3-propanediol 1 part, etc., was diluted 50-fold with H2O and used for treatment of toilet water. The **composition** showed urine color-hiding effect and did not dye fabrics.
- IC ICM A01N025-30  
ICS C02F001-00; C02F001-50; C11D003-40; C11D003-48
- CC 46-6 (Surface Active Agents and Detergents)  
Section cross-reference(s): 10, 60
- IT **Polyoxyalkylenes, uses**  
RL: NUU (Other use, unclassified); USES (Uses)  
(alkylaryl ether; toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)
- IT **Detergents**  
(toilet bowl cleaners; toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)
- IT 7173-51-5, Didecyldimethylammonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Catiogen DDM; toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)
- IT 112-00-5, Catiogen L 9002-92-0, Polyoxyethylene lauryl ether 9016-45-9, Emulsit 161 12217-77-5, C.I. Disperse Blue 54 25322-68-3D, alkylaryl ether 55901-03-6, Emulgen A 500 101179-21-9, Noigen EA 167 479411-67-1, Zwitter 30 481055-30-5, C.I. Solvent Green 36  
RL: NUU (Other use, unclassified); USES (Uses)  
(toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)
- IT 7173-51-5, Didecyldimethylammonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Catiogen DDM; toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)
- RN 7173-51-5 HCAPLUS
- CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



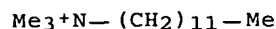
● Cl<sup>-</sup>

- IT 112-00-5, Catiogen L 9002-92-0, Polyoxyethylene lauryl ether  
RL: NUU (Other use, unclassified); USES (Uses)

(toilet water treatment agents containing colorants, surfactants, and cationic antibacterial agents)

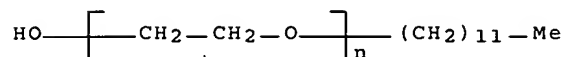
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 18 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:975832 HCAPLUS Full-text

DOCUMENT NUMBER: 138:41042

TITLE: Detergent *compositions* for spraying air conditioners

INVENTOR(S): Kado, Katsuyoshi; Aburano, Hidetoshi; Ando, Hideki; Yamamoto, Teruki

PATENT ASSIGNEE(S): Earth Chemical Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002371299	A2	20021226	JP 2002-58956	20020305
PRIORITY APPLN. INFO.:			JP 2001-115696	A 20010413

AB The *compns.* containing solvents and detergents cause no damage to ABS polymer moldings with distortion ratio 0.74. Thus, a *composition* containing 0.1% Aromox DMC-W (dimethylcocoalkyl amine oxide) and ethanol was applied on an ABS molding with distortion ration 1.28 and stored for 18 h resulting in good bending crack resistance.

IC ICM C11D003-43  
ICS C11D003-20; C11D003-26; C11D003-33; C11D003-34; C11D003-37;  
C11D003-384; C11D017-08; F28G009-00

CC 46-6 (Surface Active Agents and Detergents)

IT Sulfates, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(alkyl esters, salts; detergent *compns.* for spraying air conditioners)

IT Betaines

Glycosides  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (alkyl; detergent *compns.* for spraying air conditioners)

IT Amine oxides  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (alkylamine oxides; detergent *compns.* for spraying air conditioners)

IT Amines, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (alkylamines; detergent *compns.* for spraying air conditioners)

IT Betaines  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (amido; detergent *compns.* for spraying air conditioners)

IT Fatty acids, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (coco, collagen peptide, sodium salt; detergent *compns.* for spraying air conditioners)

IT Amine oxides  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (cocoalkyldimethyl, Aromox DMC-W; detergent *compns.* for spraying air conditioners)

IT Air conditioners  
*Detergents*  
*Sprays*  
 (detergent *compns.* for spraying air conditioners)

IT Soaps  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (detergent *compns.* for spraying air conditioners)

IT Collagens, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (hydrolyzates, salts; detergent *compns.* for spraying air conditioners)

IT Alcohols, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (lower, solvents; detergent *compns.* for spraying air conditioners)

IT Carboxylic acids, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (salts, ether derivs.; detergent *compns.* for spraying air conditioners)

IT Amines, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (tallow alkyl, ethoxylated; detergent *compns.* for spraying air conditioners)

IT *Polyoxyalkylenes, uses*  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (tallowalkyl amine derivs.; detergent *compns.* for spraying air conditioners)

IT 143-19-1, Sodium oleate  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (Nonsoul ON-A; detergent *compns.* for spraying air conditioners)

IT 2571-88-2, Dimethylstearylamine oxide  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (Unisafe A-SM; detergent *compns.* for spraying air conditioners)

IT 107-64-2, Distearyltrimethylammonium chloride 112-00-5,  
 Trimethylstearyltrimethylammonium chloride 143-18-0, Potassium oleate 151-21-3,  
 Lauryl sodium sulfate, uses 683-10-3 1643-20-5 2190-04-7,

Stearylamine acetate 2624-31-9, Potassium palmitate 6148-77-2  
 9017-33-8, Naphthalenesulfonic acid-formaldehyde copolymer 18426-54-5  
 21539-58-2, Sodium N-lauroyl-N-methyl-β-alanine 24938-91-8D  
 , Polyoxyethylene tridecyl ether, carboxylates, sodium salt 25322-68-3D,  
 Polyethylene glycol, tallowalkyl amine derivs. 26635-92-7, Nymeen S 204  
 31017-83-1 56363-89-4, Nymeen DT 203

RL: NUU (Other use, unclassified); USES (Uses)  
 (detergent *compns.* for spraying air conditioners)

IT 9003-56-9, Styrene-butadiene-acrylonitrile copolymer

RL: MSC (Miscellaneous)  
 (molding; detergent *compns.* for spraying air conditioners  
 without damaging ABS moldings)

IT 64-17-5, Ethanol, uses

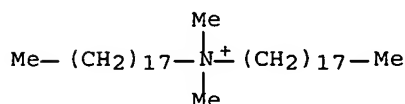
RL: NUU (Other use, unclassified); USES (Uses)  
 (solvent; detergent *compns.* for spraying air conditioners)

IT 107-64-2, Distearyltrimethylammonium chloride 112-00-5,  
 Trimethylaurylammonium chloride 24938-91-8D, Polyoxyethylene  
 tridecyl ether, carboxylates, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)  
 (detergent *compns.* for spraying air conditioners)

RN 107-64-2 HCAPLUS

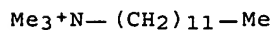
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX  
 NAME)



● Cl<sup>-</sup>

RN 112-00-5 HCAPLUS

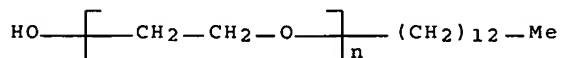
CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 24938-91-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



L65 ANSWER 19 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:927531 HCAPLUS Full-text  
 DOCUMENT NUMBER: 137:386356  
 TITLE: Detergent *composition* for dry cleaning and  
 the dry cleaning method  
 INVENTOR(S): Azuma, Takaya; Shirouzu, Susumu  
 PATENT ASSIGNEE(S): NOF Corporation, Japan  
 SOURCE: PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002097024	A1	20021205	WO 2002-JP5203	20020529
WO 2002097024	C1	20040930		
W: CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CN 1513054	A	20040714	CN 2002-810884	20020529
EP 1491618	A1	20041229	EP 2002-807742	20020529
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 2004142838	A1	20040722	US 2003-476793	20031106
PRIORITY APPLN. INFO.:			JP 2001-163411	A 20010530
			WO 2002-JP5203	W 20020529

AB A detergent *composition* for dry cleaning, which has excellent detergency and water solubility, capability of preventing re-soiling, less probability of a ring strain in cloth when pretreatment agent is used, good softness to materials being cleaned, and good stability, comprises (a) a nonionic surfactant 5-70 weight%, (b) a cyclic polysiloxane, and (c) a polyether-modified silicone having a HLB value of 6 or less; furthermore, the weight ratio of component (b) to (c) is 0.1-20. Thus, polyoxyethylene polyoxypropylene tridecyl ether 15, decamethylcyclopentasiloxane 60, and polyoxypropylene grafted polydimethylsiloxane 25 weight% were mixed to prepare the detergent for dry cleaning.

IC ICM C11D010-02  
 ICS C11D001-66; C11D003-37; C11D003-43; D06L001-04

CC 46-5 (Surface Active Agents and Detergents)

IT Cyclosiloxanes

RL: TEM (Technical or engineered material use); USES (Uses)  
 (Me; detergent *composition* for dry cleaning)

IT Amides, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (N-(hydroxyalkyl), nonionic surfactant; detergent *composition* for dry cleaning and the dry cleaning method)

IT Fatty acids, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkoxylated, surfactant; detergent *composition* for dry cleaning)

IT *Polyoxyalkylenes*, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl group-terminated, surfactant; detergent *composition* for dry cleaning)

IT Surfactants

(anionic, alkyl phosphates, alkylbenzenesulfonic acid type; detergent *composition* for dry cleaning)

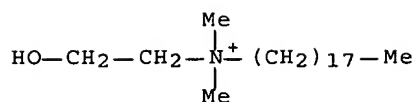
IT Surfactants

- (cationic, alkylimidazoline type and alkyltrimethylhydroxyethylammonium type; detergent *composition* for dry cleaning)
- IT Dry cleaning  
Dry cleaning solvents  
(detergent *composition* for dry cleaning and the dry cleaning method)
- IT **Detergents**  
(dry-cleaning; detergent *composition* for dry cleaning and the dry cleaning method)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(esters, nonionic surfactant; detergent *composition* for dry cleaning and the dry cleaning method)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(ethers, nonionic surfactant; detergent *composition* for dry cleaning and the dry cleaning method)
- IT Surfactants  
(nonionic; detergent *composition* for dry cleaning)
- IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyoxyalkylene-, block; detergent *composition* for dry cleaning)
- IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyoxyalkylene-, graft; detergent *composition* for dry cleaning)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polysiloxane-, block; detergent *composition* for dry cleaning)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polysiloxane-, graft; detergent *composition* for dry cleaning)
- IT 541-02-6, Decamethylcyclotetrasiloxane 556-67-2,  
Octamethylcyclotetrasiloxane 26264-06-2, Calcium dodecylbenzene sulfonate 55750-12-4 81262-92-2 130529-15-6  
156309-06-7, Dimethylsilanediol-ethylene oxide block copolymer  
156310-28-0D, Dimethylsilanediol-methylsilanediol-oxirane graft copolymer, trimethylsilyl-terminated 218304-14-4D, Dimethylsilanediol-methylsilanediol-propylene oxide graft copolymer, butyl ether, trimethylsilyl-terminated 476198-51-3  
RL: TEM (Technical or engineered material use); USES (Uses)  
(detergent *composition* for dry cleaning)
- IT 120-40-1, Lauric acid diethanolamide 1338-43-8 9005-65-6 9016-45-9,  
Polyoxyethylenenonylphenyl ether 9040-05-5 12441-09-7D,  
Sorbitan, fatty acid esters, alkoxylated fatty acid esters 26266-58-0,  
Sorbitan trioleate 31587-78-7 56449-46-8, Polyoxyethylene oleyl ester 65150-81-4, Ethylene oxide-propylene oxide copolymer monotridentyl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; detergent *composition* for dry cleaning)
- IT 55750-12-4 81262-92-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(detergent *composition* for dry cleaning)
- RN 55750-12-4 HCAPLUS
- CN 1-Octadecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 45280-10-2

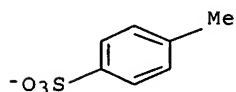
CMF C22 H48 N O



CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



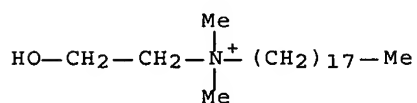
RN 81262-92-2 HCAPLUS

CN 1-Octadecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, nitrate (9CI) (CA INDEX NAME)

CM 1

CRN 45280-10-2

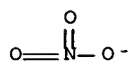
CMF C22 H48 N O



CM 2

CRN 14797-55-8

CMF N O3



IT 9040-05-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; detergent *composition* for dry cleaning)

RN 9040-05-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecenyl- $\omega$ -hydroxy- (9CI) (CA



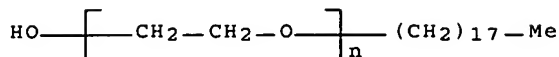
INDEX NAME)

CM 1

CRN 9005-00-9

CMF (C2 H4 O)n C18 H38 O

CCI PMS



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 20 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:808074 HCAPLUS Full-text

DOCUMENT NUMBER: 137:326846

TITLE: Acrylic copolymer containing cleaning compositions

INVENTOR(S): Egawa, Kazuko; Kususe, Masahiro; Iwamoto, Tsutomu

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002309291	A2	20021023	JP 2001-115911	20010413
PRIORITY APPLN. INFO.:			JP 2001-115911	20010413

AB Title *compns.* comprise (A) acrylic acid and/or methacrylic acid, (B) C1-3 alkyl and/or C2-3 alkenyl containing (meth)acrylate, and (C) C4-6 alkyl and/or alkenyl (meth)acrylate copolymers and or at least partially neutralized copolymers having average mol. weight 5000-200,000. Thus, a *compns.* comprising potassium laurate 9, potassium myristate 9, potassium oleate 1, Obazoline LB-SF (betaine lauryldimethylaminoacetate) 3, methacrylic acid-Me acrylate-tert-Bu acrylate copolymer neutralized by potassium having mol. weight 20,000 2, perfume 1, and water 75 parts showed good formability.

IC ICM C11D003-37  
ICS A61K007-02; A61K007-075; A61K007-50; C11D001-04; C11D001-90

CC 46-6 (Surface Active Agents and Detergents)

ST acrylate detergent surfactant cleaner *compn*

IT Onium compounds  
RL: TEM (Technical or engineered material use); USES (Uses)  
(1-(carboxymethyl)-4,5-dihydro-1-(2-hydroxyethyl)-2-norcoco alkyl imidazolium, inner salts, Softazoline CL, surfactants; acrylic copolymer containing cleaning *compns.*)

IT Onium compounds  
RL: TEM (Technical or engineered material use); USES (Uses)  
(1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-norcoco alkyl imidazolium, inner salts, disodium salts, Miranol C2M-NP-HV, surfactants; acrylic copolymer containing cleaning *compns.*)

IT *Detergents*  
(acrylic copolymer containing cleaning *compns.*)

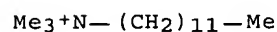
- IT Surfactants  
(amphoteric; acrylic copolymer containing cleaning *compns.*)
- IT Surfactants  
(anionic; acrylic copolymer containing cleaning *compns.*)
- IT Quaternary ammonium compounds, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(bis(hydrogenated tallow alkyl)dimethyl, chlorides, Arquad 2HT, flakes, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Surfactants  
(cationic; acrylic copolymer containing cleaning *compns.*)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco, 2-sulfoethyl esters, sodium salts, Elfan AT 84, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco, potassium salts, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco, salts, surfactant; acrylic copolymer containing cleaning *compns.*)
- IT Amine oxides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cocoalkyldimethyl, ethoxylated, surfactants, Softamine C 3; acrylic copolymer containing cleaning *compns.*)
- IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(di-Me Ph, SH 556, surfactant; acrylic copolymer containing cleaning *compns.*)
- IT Cyclosiloxanes  
RL: TEM (Technical or engineered material use); USES (Uses)  
(di-Me, SH 245, surfactant; acrylic copolymer containing cleaning *compns.*)
- IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(di-Me, hydroxyalkyl Me, ethoxylated propoxylated, SH 3748, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Polysiloxanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(di-Me, hydroxyalkyl Me, ethoxylated, SH 3775M, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Castor oil  
RL: TEM (Technical or engineered material use); USES (Uses)  
(hydrogenated, ethoxylated, Emalex HC 5, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Castor oil  
RL: TEM (Technical or engineered material use); USES (Uses)  
(hydrogenated, ethoxylated, monoisostearate; acrylic copolymer containing cleaning *compns.*)
- IT Carboxylic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(hydroxy, salts, sodium salt, surfactants; acrylic copolymer containing cleaning *compns.*)
- IT Surfactants  
(nonionic; acrylic copolymer containing cleaning *compns.*)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(palm kernel-oil, salts, surfactant; acrylic copolymer containing cleaning *compns.*)

- IT *Polyoxaalkylenes, uses*  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; acrylic copolymer containing cleaning *compns.*)
- IT Quaternary ammonium compounds, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (trimethyltallow alkylammonium chlorides, Arquad T-28, surfactants;  
 acrylic copolymer containing cleaning *compns.*)
- IT 7651-02-7, Catinal MPAS  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Catinal MPAS, surfactant; acrylic copolymer containing cleaning  
*compns.*)
- IT 57-55-6, Propylene glycol, uses 107-88-0, 1,3-Butylene glycol;  
 31069-81-5, Leoal MS 100 159666-35-0, Luvimer 36D  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Emalex HC 5, surfactants; acrylic copolymer containing cleaning  
*compns.*)
- IT 1318-93-0, Kunipia g, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (acrylic copolymer containing cleaning *compns.*)
- IT 31069-81-5D, neutralized, neutralized, neutralized 38719-16-3D, Hexyl  
 methacrylate-methacrylic acid-methyl methacrylate copolymer, neutralized  
 50861-78-4D, neutralized 90865-16-0D, neutralized 159666-35-0D,  
 neutralized 365424-98-2D, neutralized 473424-58-7D, neutralized  
 473424-61-2D, neutralized 473424-62-3D, neutralized 473424-63-4D,  
 neutralized 473424-64-5D, neutralized 473424-65-6D, neutralized  
 473424-66-7D, neutralized  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (acrylic copolymer containing cleaning *compns.*)
- IT 122-19-0, Stearyldimethylbenzylammonium chloride  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant, Catinal OB-80E; acrylic copolymer containing cleaning  
*compns.*)
- IT 683-10-3, Betaine lauryldimethylaminoacetate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant, Obazoline LB-SF; acrylic copolymer containing cleaning  
*compns.*)
- IT 2530-44-1, Softamine LD  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant, Softamine LD; acrylic copolymer containing cleaning  
*compns.*)
- IT 107-41-5, Hexylene glycol 112-00-5, Cation BB 112-02-7  
 , Arquad 16-29 137-16-6, Soypon SLE 143-18-0, Potassium oleate  
 627-83-8, Ethylene glycol distearate 683-10-3, Nikkol AM 301  
 1643-20-5, Aromox DM 12D-W 2224-49-9 2624-31-9, Potassium palmitate  
 2717-15-9 3546-96-1, Lebon APL 4292-10-8, Enagicol L 30B 4337-75-1,  
 Nikkol LMT 9004-82-4, Sunnol LMT 1430 9016-00-6, SH 200C 10124-65-9,  
 Potassium laurate 13429-27-1, Myristic acid potassium salt 13961-86-9  
 17026-83-4, Nikkol Phosten HLP-N 25322-68-3, Polyethylene glycol  
 26256-79-1, Enagicol DP 30 33939-64-9, Enagicol EC 30 41669-40-3  
 42557-10-8, SH 200 45278-24-8, Softazoline HL-R 49719-60-0  
 53404-39-0 58450-52-5, Beaulight LSS 81859-24-7, Leogard GP  
 89187-78-0, Amisoft LK 12 102847-97-2, Catinal SPC-20AC  
 104922-23-8, Lanoquat DES 50 144649-53-6, N-Lauroyl-N-methyl- $\beta$ -  
 alanine potassium salt 149779-14-6, CAE 185323-85-7, Softazoline LSB  
 185441-27-4 273214-35-0, Amilite GCK 12 473543-27-0, Aminosap AR 11  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; acrylic copolymer containing cleaning *compns.*)
- IT 112-00-5, Cation BB 112-02-7, Arquad 16-29  
 58450-52-5, Beaulight LSS 102847-97-2, Catinal SPC-20AC  
 RL: TEM (Technical or engineered material use); USES (Uses)

(surfactant acrylic copolymer-containing cleaning comps.)

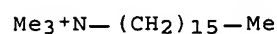
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 112-02-7 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 58450-52-5 HCAPLUS

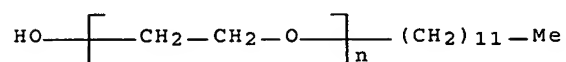
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(3-carboxy-1-oxosulfopropyl)- $\omega$ -(dodecyloxy)-, disodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

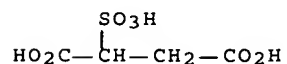
CCI PMS



CM 2

CRN 5138-18-1

CMF C4 H6 O7 S

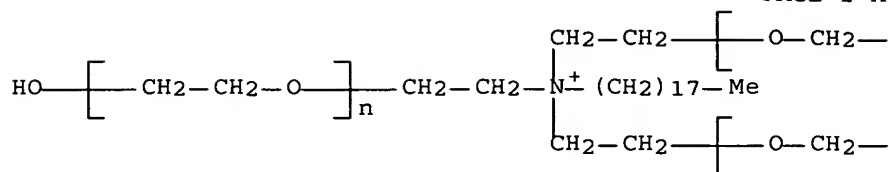


RN 102847-97-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha, \alpha', \alpha''$ -[(octadecylnitrilio)tri-2,1-ethanediyl]tris[ $\omega$ -hydroxy-, chloride

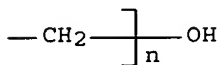
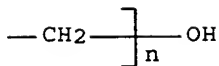
(9CI) (CA INDEX NAME)

PAGE 1-A



● C1 -

PAGE 1-B



L65 ANSWER 21 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:636639 HCAPLUS Full-text  
 DOCUMENT NUMBER: 137:171449  
 TITLE: Neutral laundry detergents for delicate fabrics  
 showing good detergency and soft finish  
 INVENTOR(S): Shimizu, Kazuo  
 PATENT ASSIGNEE(S): Raku K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002235097	A2	20020823	JP 2001-73100	20010208
PRIORITY APPLN. INFO.:			JP 2001-73100	20010208

AB The detergents, satisfying pH 5-8, comprise aqueous organic solvents 5-30, terpenoid-based citrus peel oils 2-10, and surfactants of (a) anionic surfactants chosen from Na, K, NH<sub>4</sub>, and alkanolamine salts of alkyl (ether) sulfates, α-olefin sulfonates, linear alkylbenzenesulfonic acids, or acyl glutamates, (b) nonionic surfactants chosen from fatty alkanolamides, polyoxyethylene alkyl(phenyl) ethers, alkyl glycosides, polyoxyethylene sorbitan fatty esters, sucrose fatty esters, and alkylamine oxides, (c) amphoteric surfactants chosen from alkyl betaines, alkylimidazolinium betaines, and amidoalkyl betaines, and/or (d) aqueous cationic surfactants 20-50%. Thus, a composition of 12:8:5:3 (part) triethanolamine lauryl sulfate/polyoxyethylene lauryl ether/dimethyl lauryl acetic acid betaine/dodecyltrimethylammonium chloride in 4:8:5:3 (part) D-

polyoxyethylene/polypropylene glycol, polyethylene glycol, 1-3-butylene glycol showed good cleaning effect and antistatic finish on wool, acrylic jersey, and cotton fabrics in soak washing.

IC ICM C11D010-02

ICS C11D003-382; C11D003-43; C11D017-08; D06L001-12; D06M013-02

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

IT **Polyoxyalkylenes, uses**

RL: TEM (Technical or engineered material use); USES (Uses)

(alkylphenyl ethers, nonionic surfactants; neutral detergents with good detergency and soft finishing for delicate fabrics)

IT **Surfactants**

(amphoteric; neutral **detergents** with good detergency and soft finishing for delicate fabrics)

IT **Surfactants**

(anionic; neutral **detergents** with good detergency and soft finishing for delicate fabrics)

IT **Surfactants**

(cationic; neutral **detergents** with good detergency and soft finishing for delicate fabrics)

IT **Detergents**

(laundry, liquid; neutral detergents with good detergency and soft finishing for delicate fabrics)

IT **Surfactants**

(nonionic; neutral **detergents** with good detergency and soft finishing for delicate fabrics)

IT 112-00-5, Dodecyltrimethylammonium chloride

RL: TEM (Technical or engineered material use); USES (Uses)

(cationic surfactants; neutral detergents with good detergency and soft finishing for delicate fabrics)

IT 1643-20-5, Lauryldimethylamine oxide 9002-92-0, Polyethylene glycol lauryl ether 9005-63-4D, Ethoxylated sorbitan, ester with fatty acids 25322-68-3D, Polyoxyethylene glycol, alkylphenyl ethers

RL: TEM (Technical or engineered material use); USES (Uses)

(nonionic surfactants; neutral detergents with good detergency and soft finishing for delicate fabrics)

IT 112-00-5, Dodecyltrimethylammonium chloride

RL: TEM (Technical or engineered material use); USES (Uses)

(cationic surfactants; neutral detergents with good detergency and soft finishing for delicate fabrics)

RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N—(CH<sub>2</sub>)<sub>11</sub>—Me

● Cl<sup>-</sup>

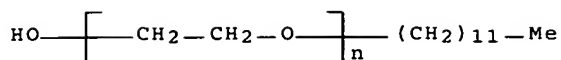
IT 9002-92-0, Polyethylene glycol lauryl ether

RL: TEM (Technical or engineered material use); USES (Uses)

(nonionic surfactants; neutral detergents with good detergency and soft finishing for delicate fabrics)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 22 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:575561 HCAPLUS Full-text  
 DOCUMENT NUMBER: 137:129545  
 TITLE: Hair or skin *compositions* containing a  
 conditioning polymer encapsulated in a lipid vesicle  
 INVENTOR(S): Niemiec, Susan; Shah, Snehal; Lukenbach, Elvin R.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S.  
 Ser. No. 320,894.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002102295	A1	20020801	US 2001-939885	20010827
CA 2309373	AA	20001127	CA 2000-2309373	20000524
JP 2001019634	A2	20010123	JP 2000-157251	20000526
CN 1285186	A	20010228	CN 2000-117689	20000526
BR 2000002285	A	20010123	BR 2000-2285	20000529
US 2004091443	A1	20040513	US 2003-692490	20031024
PRIORITY APPLN. INFO.:			US 1999-320894	A2 19990527
			US 2001-939885	A3 20010827

AB The present invention relates to a *composition* for application to the hair or skin which contains a conditioning polymer encapsulated in a lipid vesicle. Lipid vesicles contained glyceryl distearate 45, cholesterol 15, polyoxyethylene-10-stearyl ether 20, DSHM 20, water 68.1, Me paraben 0.2, Pr paraben 0.2, and PVP K-30 31.5%. Formulation of a shampoo containing lipid vesicles of the invention is disclosed.

IC ICM A61K007-06  
 ICS A61K007-11; A61K009-127

INCL 424450000

CC 62-3 (Essential Oils and Cosmetics)

ST hair skin *compn* conditioning polymer encapsulation lipid vesicle

IT Amines, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (alkoxylated; hair or skin *compns.* containing conditioning  
 polymer encapsulated in lipid vesicle)

IT Hair preparations  
 (conditioners; hair or skin *compns.* containing conditioning  
 polymer encapsulated in lipid vesicle)

IT Cosmetics

*Detergents*

Hair preparations

Liposomes

Shampoos

(hair or skin *compns.* containing conditioning polymer  
 encapsulated in lipid vesicle)

IT Polymers, biological studies

## Polyoxyalkylenes, biological studies

## Sterols

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair or skin *compns.* containing conditioning polymer  
encapsulated in lipid vesicle)

## IT Lipids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(vesicles; hair or skin *compns.* containing conditioning polymer  
encapsulated in lipid vesicle)

## IT 444341-40-6, DSHM

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(DSHM; hair or skin *compns.* containing conditioning polymer  
encapsulated in lipid vesicle)

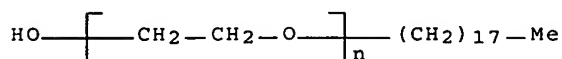
IT 56-81-5D, Glycerol, esters 57-88-5, Cholesterol;, biological studies  
81-13-0, Panthenol 1323-83-7, Glyceryl distearate 2235-54-3, Ammonium  
lauryl sulfate 7384-98-7, Propylene glycol dicaprylate 9003-39-8,  
Polyvinylpyrrolidone. 9004-61-9, Hyaluronic acid 9004-62-0,  
Hydroxyethyl cellulose 9005-00-9, Polyoxyethylene stearyl ether  
24938-91-8, Trideceth 6 25322-68-3 26161-33-1, Polyquaternium  
37 27252-75-1, Polyoxyethylene octyl ether 27638-00-2,  
Glyceryl dilaurate 32612-48-9, Ammonium laureth sulfate  
35239-12-4, Quaternium 16 53824-77-4, Propylene glycol dicaprinate  
81859-24-7, Polyquaternium 10 216081-78-6 221130-95-6, Silsoft a 843  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair or skin *compns.* containing conditioning polymer  
encapsulated in lipid vesicle)

IT 9005-00-9, Polyoxyethylene stearyl ether 24938-91-8,  
Trideceth 6 27252-75-1, Polyoxyethylene octyl ether  
35239-12-4, Quaternium 16

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair or skin *compns.* containing conditioning polymer  
encapsulated in lipid vesicle)

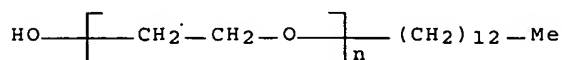
## RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)



## RN 24938-91-8 HCAPLUS

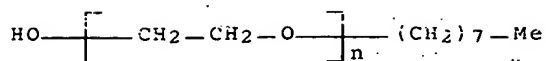
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)



## RN 27252-75-1 HCAPLUS

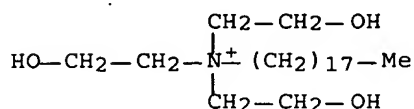
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octyl- $\omega$ -hydroxy- (9CI) (CA INDEX  
NAME)





RN 35239-12-4 HCAPLUS

CN 1-Octadecanaminium, N,N,N-tris(2-hydroxyethyl)-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L65 ANSWER 23 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:480259 HCAPLUS Full-text

DOCUMENT NUMBER: 137:48907

TITLE: Laundry detergents for easy recovery of faded color

INVENTOR(S): Yamada, Isao; Inoue, Akihiro; Tsukiyama, Yoichi; Ogura, Nobuyuki

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002180092	A2	20020626	JP 2000-374366	20001208
PRIORITY APPLN. INFO.: JP 2000-374366				20001208

AB The detergents comprise (a) anionic and/or nonionic surfactants, (b) water-insol. silicones with reactive index 1.20-1.45 at 25°, and (c) compds. having quaternary and/or tertiary amino groups and C8-36 hydrocarbyl group. A liquid detergent *composition* contained polyoxyethylene alkyl ether sulfate Na salt 10, C14-18 fatty acid Na salt 5, ethylene oxide-propylene oxide block copolymer lauryl ether 20, polyoxyethylene lauryl ether 5, TSF 4706 15, N-stearoylaminopropyl-N,N,N-trimethylammonium chloride 2, monoethanolamine 5, acrylic acid-maleic acid copolymer Na salt 2, triethylene glycol Ph ether 5, citric acid 1, and ion exchanged water the balance, showing good color recovery and detergency 53%.

IC ICM C11D003-37

ICS C11D001-40; C11D001-62; C11D017-06; C11D017-08

CC 46-5 (Surface Active Agents and Detergents)

IT *Polyoxyalkylenes, uses*

RL: TEM (Technical or engineered material use); USES (Uses)

(alkyl ether, sulfate, sodium salt; laundry detergents for easy recovery of faded color)

IT *Detergents*

(laundry; laundry detergents for easy recovery of faded color)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts 629-25-4, Sodium laurate 9002-92-0, Polyoxyethylene lauryl ether 22890-18-2, N-Stearoylaminopropyl-N,N,N-trimethylammonium chloride 25322-68-3D, alkyl ether, sulfate, sodium salt 26913-06-4D, Poly[imino(1,2-ethanediyl)], palm kernel alkyl derivative 34728-17-1D, Poly(2-oxazoline), palm kernel alkyl derivative, hydrolyzed 43016-78-0 113609-82-8, Ethylene oxide-propylene oxide block copolymer lauryl ether

RL: TEM (Technical or engineered material use); USES (Uses)

(laundry detergents for easy recovery of faded color)

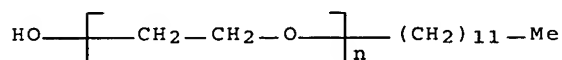
IT 9002-92-0, Polyoxyethylene lauryl ether 22890-18-2, N-Stearoylaminopropyl-N,N,N-trimethylammonium chloride

RL: TEM (Technical or engineered material use); USES (Uses)

(laundry detergents for easy recovery of faded color)

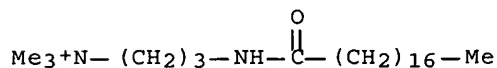
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 22890-18-2 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)amino]-, chloride (9CI) (CA INDEX NAME)



L65 ANSWER 24 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:126414 HCAPLUS Full-text

DOCUMENT NUMBER: 136:185808

TITLE: Cleaning agents

INVENTOR(S): Kawaguchi, Koji; Itayama, Hiroshi; Kawasaki, Yumi; Shiratsukayama, Yasuhito

PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan; Matsushita Electric Industrial Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2002053895	A2	20020219	JP 2000-237676	20000804
PRIORITY APPLN. INFO.:			JP 2000-237676	20000804

OTHER SOURCE(S): MARPAT 135:185808

AB Cleaning agents comprise 0:1-25% cationic surfactants and 75-99.4% nonionic surfactant wherein HLB of the cationic surfactant is 10-25. Thus, octylammonium chloride (obtained from reacting octylamine and Me chloride having HLB 11.9) 1, polyethylene glycol octyl ether 39, citric acid triethanolamine 6, propylene glycol 5, Alcalase 2.5L 0.4, and water 48.6 parts gave a cleaning composition

IC ICM C11D001-835  
ICS C08G065-08; C11D001-40; C11D001-46; C11D001-52; C11D001-62; C11D001-722

CC 46-6 (Surface Active Agents and Detergents)

IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl ethers; cleaning agent)

IT Detergents  
(cleaning agent)

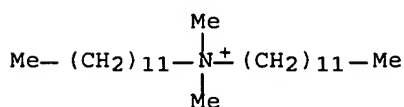
IT 142-95-0P, Octylammonium chloride 2294-38-4P, Ethylpyridinium chloride 3401-74-9P, Dimethyldilaurylammonium chloride 4086-73-1P, Octylpyridinium chloride 4497-24-9P 394737-32-7P 394737-33-8P 394737-35-0P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(surfactant; cleaning agent)

IT 9002-92-0, Polyethylene glycol dodecyl ether 9003-11-6D, Ethylene oxide-propylene oxide copolymer, alkyl ethers 9004-96-0, Ethoxylated oleic acid 9005-00-9, Polyethylene glycol stearyl ether 9005-64-5, Ethoxylated sorbitan monolaurate 27252-75-1, Polyethylene glycol octyl ether 113609-84-0, Ethylene oxide-propylene oxide block copolymer octyl ether 115628-78-9, Ethylene oxide-propylene oxide block copolymer monotridecyl ether 141615-70-5, Ethylene oxide-propylene oxide block copolymer decyl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; cleaning agent)

IT 3401-74-9P, Dimethyldilaurylammonium chloride 394737-33-8P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(surfactant; cleaning agent)

RN 3401-74-9 HCAPLUS

CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 394737-33-8 HCAPLUS

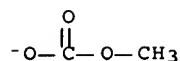
CN 1-Octadecanaminium, N,N,N-trimethyl-, methyl carbonate (9CI) (CA INDEX NAME)

CM 1

CRN 49745-25-7

CMF C2 H3 O3

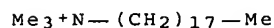
CMF C2 H3 O3



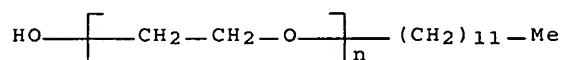
CM 2

CRN 15461-40-2

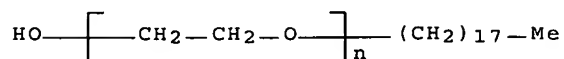
CMF C21 H46 N



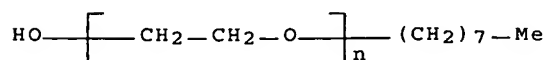
IT 9002-92-0, Polyethylene glycol dodecyl ether 9005-00-9,  
Polyethylene glycol stearyl ether 27252-75-1, Polyethylene  
glycol octyl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactant; cleaning agent)  
RN 9002-92-0 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)



RN 9005-00-9 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA  
INDEX NAME)



RN 27252-75-1 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octyl- $\omega$ -hydroxy- (9CI) (CA INDEX  
NAME)



L65 ANSWER 25 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:35956 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:104258  
 TITLE: The cleaning agent which contains the optical catalyst.  
 INVENTOR(S): Tamura, Minoru; Noritake, Fumitomo; Uno, Akinori; Yamamoto, Nobuyuki  
 PATENT ASSIGNEE(S): Lion Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002012891	A2	20020115	JP 2000-195955	20000629
PRIORITY APPLN. INFO.:			JP 2000-195955	20000629

AB Title *compsns.* comprise surfactants and photocatalysts, are able to form thin films, and have good deodorizing, antifouling, and antibacteria properties. Thus, a *compsns.* comprising ST-01 (titanium oxide) dispersed in nonionic surfactant 60, SH 377, lauryldimethylamine oxide 0.5, N-butylethanolamine 2, diethylene glycol monobutyl ether 10, and water 2.5 parts was agitated and applied on a stainless plate where salad oil was dipped and heated, and the oil was removed.

IC ICM C11D003-12  
 ICS B01J035-02; C11D017-00

CC 46-6 (Surface Active Agents and Detergents)

ST cleaning *compn* contg surfactant photocatalyst

IT *Detergents*  
 Films  
 Photolysis catalysts  
 Surfactants  
 (cleaning agent which contains optical catalyst)

IT *Polyoxyalkylenes, uses*  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (di-Me polysiloxane-, SH 3771, surfactants; cleaning agent which contains optical catalyst)

IT 110-80-5, Ethylene glycol monoethyl ether 111-75-1, N-Butylethanolamine 112-03-8, Stearyltrimethylammonium chloride 112-34-5, Diethylene glycol monobutyl ether 1643-20-5, Lauryldimethylamine oxide 9002-92-0, Poly(oxyethylene) lauryl ether 24938-91-8, Polyoxyethylene tridecyl ether 34590-94-8, Dipropylene glycol monomethyl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; cleaning agent which contains optical catalyst)

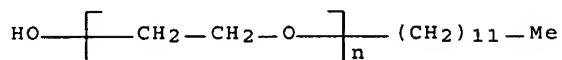
IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0, Poly(oxyethylene) lauryl ether 24938-91-8, Polyoxyethylene tridecyl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; cleaning agent which contains optical catalyst)

RN 112-03-8 HCAPLUS

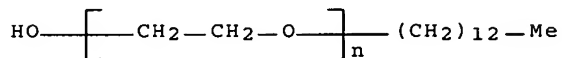
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N—(CH<sub>2</sub>)<sub>17</sub>—Me● Cl<sup>-</sup>

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
INDEX NAME)

RN 24938-91-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy- (9CI) (CA  
INDEX NAME)

L65 ANSWER 26 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:114842 HCAPLUS Full-text

DOCUMENT NUMBER: 134:164861

TITLE: Process for cleaning textile using  
compositions containing siloxanes

INVENTOR(S): Mei, Wang Ping; Wu, Peter S.; Chiang, Samuel N.

PATENT ASSIGNEE(S): Dow Corning Taiwan Inc., Taiwan

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1076088	A1	20010214	EP 1999-119749	19991006
EP 1076088	B1	20040526		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

KR 1999-32449

A 19990807

AB Title process comprises applying a *composition* comprising a low mol. weight linear siloxane represented by the formula CH<sub>3</sub>((CH<sub>3</sub>)<sub>2</sub>SiO)<sub>n</sub>Si(CH<sub>3</sub>)<sub>2</sub>CH<sub>3</sub> wherein n is an integer from 1 to 7, and a cationic surfactant to stained textiles and heating it in the presence of an inorg. base compound at a temperature below which the textiles are deteriorated. Thus, a *composition* comprising decamethyltetrasiloxane 0.66, trilaurylmethylammonium chloride 0.19, polyethylene glycol 2,6,8-trimethyl-4-nonyl ether 0.06, polyethylene glycol

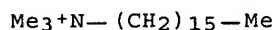
C12-15 sec-alkyl ether 0.31, polyethylene glycol C12-14 sec-alkyl ether 0.103, water 0.49, organic solvents 0.187 removed an oil spot on a cotton fabric completely in 90° water containing NaOH.

- IC ICM C11D003-16  
ICS C11D003-04; C11D003-10; C11D001-38
- ICI C11D001-62
- CC 46-5 (Surface Active Agents and Detergents)
- ST textile cleaning *compn* siloxane cationic surfactant
- IT *Polyoxyalkylenes, uses*  
RL: TEM (Technical or engineered material use); USES (Uses)  
(C12-15 sec-alkyl ethers, nonionic surfactant; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Quaternary ammonium compounds, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cationic surfactant; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Surfactants  
(cationic; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Textiles  
(cotton; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT *Detergents*  
(laundry, liquid, optionally emulsion; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Surfactants  
(nonionic; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Fabric softeners  
(silicone-type; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT Polysiloxanes, uses  
RL: POF (Polymer in formulation); REM (Removal or disposal); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT 112-02-7, Cetyltrimethylammonium chloride 1875-92-9D, Benzyltrimethylammonium hydrochloride, alkyl derivs. 3401-74-9, Didodecyltrimethylammonium chloride 7173-54-8, Trilauryltrimethylammonium chloride  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cationic surfactant; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT 25322-68-3D, Polyethylene glycol, C12-15 sec-alkyl ethers 60828-78-6  
RL: TEM (Technical or engineered material use); USES (Uses)  
(nonionic surfactant; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT 107-46-0, Hexamethyldisiloxane 107-51-7, Octamethyltrisiloxane 141-62-8, Decamethyltetrasiloxane 144-55-8, Sodium hydrogen carbonate, uses 497-19-8, Sodium carbonate, uses 1310-58-3, Potassium hydroxide, uses 1310-73-2, Sodium hydroxide, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)
- IT 112-02-7, Cetyltrimethylammonium chloride 3401-74-9, Didodecyltrimethylammonium chloride 7173-54-8, Trilauryltrimethylammonium chloride  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cationic surfactant; siloxane-containing textile cleaning *compns.* useful for oily or silicone stains)

useful for oily or silicone stains)

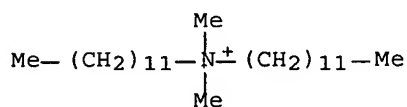
RN 112-02-7 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



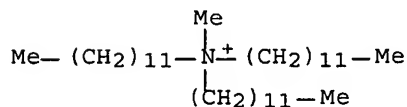
RN 3401-74-9 HCAPLUS

CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 7173-54-8 HCAPLUS

CN 1-Dodecanaminium, N,N-didodecyl-N-methyl-, chloride (9CI) (CA INDEX NAME)



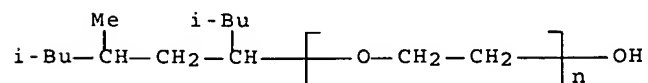
IT 60828-78-6

RL: TEM (Technical or engineered material use); USES (Uses)

(nonionic surfactant; siloxane-containing textile cleaning *compns*)

. useful for oily or silicone stains)

RN 60828-78-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[3,5-dimethyl-1-(2-methylpropyl)hexyl]- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 27 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:412378 HCAPLUS Full-text  
 DOCUMENT NUMBER: 133:60465  
 TITLE: Detergent *compositions* and their production method  
 INVENTOR(S): Okamoto, Mitsue; Nakanishi, Yoshinori; Yamamoto, Koji  
 PATENT ASSIGNEE(S): New Japan Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169887	A2	20000620	JP 1998-349539	19981209
PRIORITY APPLN. INFO.:			JP 1998-349539	19981209

AB The *compns.*, useful for dishwashing detergents, laundry detergents, shampoos, etc., contain 0.1-10%  $\geq 1$  tackifier R10(CH<sub>2</sub>CH<sub>2</sub>O)<sub>a</sub>R<sub>2</sub> (R<sub>1</sub>, R<sub>2</sub> = C<sub>12</sub>-28 alkyl or alkenyl; a = 50-100) and 1-50%  $\geq 1$  surfactant. Thus, a detergent containing polyethylene glycol (a = 50) lauryl myristyl ether 20, polyethylene glycol lauryl ether sodium sulfate 20, and water 77% had viscosity 1575 mPa-s at 25°.

IC ICM C11D003-37  
 ICS C11D003-32

CC 46-6 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 62

IT *Surfactants*  
 (amphoteric; *detergents* containing polyethylene glycol ethers as tackifiers)

IT *Surfactants*  
 (anionic; *detergents* containing polyethylene glycol ethers as tackifiers)

IT *Surfactants*  
 (cationic; *detergents* containing polyethylene glycol ethers as tackifiers)

IT *Detergents*  
 Shampoos  
 Tackifiers  
 (detergents containing polyethylene glycol ethers as tackifiers)

IT *Polyoxyalkylenes, uses*  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (ethers, surfactants; *detergents* containing polyethylene glycol ethers as tackifiers)

IT *Detergents*  
 (laundry; *detergents* containing polyethylene glycol ethers as tackifiers)

IT *Surfactants*  
 (nonionic; *detergents* containing polyethylene glycol ethers as tackifiers)

IT 112-03-8, Stearyltrimethylammonium chloride 151-21-3, Sodium laurylsulfate, uses 288-32-4D, Imidazole, betaines 683-10-3 9002-92-0, Polyethylene glycol lauryl ether 9004-82-4, Polyethylene glycol lauryl ether sodium sulfate 21539-58-2, N-Lauroyl N-methyl- $\beta$ -alanine sodium salt 25322-68-3D, Polyethylene glycol,

ethers 26256-79-1 32632-48-9, Polyethylene glycol monolauryl ether  
 ammonium sulfate 33939-64-9 54884-41-2 58450-52-5,  
 Polyethylene glycol monolauryl ether sulfosuccinate disodium salt  
 89353-55-9, N-Lauroyl N-methyl-β-alanine triethanolamine salt  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)

(surfactants; detergents containing polyethylene glycol ethers as  
 tackifiers)

IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0,  
 Polyethylene glycol lauryl ether 58450-52-5, Polyethylene glycol  
 monolauryl ether sulfosuccinate disodium salt  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)

(surfactants; detergents containing polyethylene glycol ethers as  
 tackifiers)

RN 112-03-8 HCAPLUS

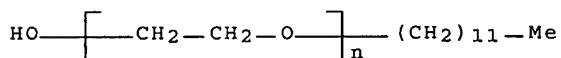
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{17}-\text{Me}$

●  $\text{Cl}^-$

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



RN 58450-52-5 HCAPLUS

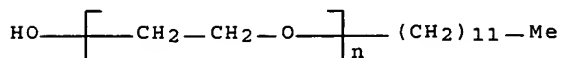
CN Poly(oxy-1,2-ethanediyl), α-(3-carboxy-1-oxosulfopropyl)-ω-  
 (dodecyloxy)-, disodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)<sub>n</sub> C12 H26 O

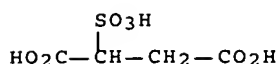
CCI PMS



CM 2

CRN 5138-18-1

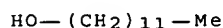
CMF C4-H6 O7 S



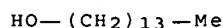
L65 ANSWER 28 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:351331 HCAPLUS Full-text  
 DOCUMENT NUMBER: 132:352511  
 TITLE: Novel fatty ammonium quaternary *compositions*  
 for hair products  
 INVENTOR(S): Barinova, Helena S.; Pereira, Abel G.; Nikolopoulos,  
 Kostas  
 PATENT ASSIGNEE(S): Croda, Inc., USA  
 SOURCE: PCT Int. Appl., 24 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000028950	A1	20000525	WO 1999-US26269	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1131041	A1	20010912	EP 1999-960227	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529487	T2	20020910	JP 2000-581998	19991112
US 6607715	B1	20030819	US 1999-438631	19991112
US 2003012763	A1	20030116	US 2002-139079	20020503
US 6638497	B2	20031028		
PRIORITY APPLN. INFO.:			US 1998-107983P	P 19981112
			US 1999-438631	A1 19991112
			WO 1999-US26269	W 19991112
AB	This invention relates to a com. feasible fatty ammonium quat compound or <i>composition</i> useful in hair products and the like comprising the properties of being flakeable and having at least 35 % cationic activity. Utilizing the mixture of fatty alcs. and glycols as a solvent, one can achieve higher cationic activities.			
IC	ICM A61K007-075			
	ICS C07C229-10; C07C229-12; C07C233-04; C07C233-05; C07C233-34; C07C233-35; C07C233-36			
CC	62-3 (Essential Oils and Cosmetics)			
IT	Alcohols, biological studies			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)			
	(C16-18; fatty ammonium quaternary <i>compns.</i> containing alcs. and			

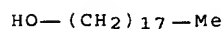
- glycols as solvents for hair products)
- IT Hair preparations  
(fatty ammonium quaternary *compns.* containing alcs. and glycols as solvents for hair products)
- IT Glycols, biological studies  
Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty ammonium quaternary *compns.* containing alcs. and glycols as solvents for hair products)
- IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty; fatty ammonium quaternary *compns.* containing alcs. and glycols as solvents for hair products)
- IT 57-55-6, Propylene glycol, biological studies 107-88-0, 1,3-Butanediol 112-53-8, Lauryl alcohol 112-72-1, Myristyl alcohol 112-92-5, Stearyl alcohol 661-19-8, Behenyl alcohol 6899-10-1, Cetyltrimethylammonium 17301-53-0, Behenyltrimethylammonium chloride 36653-82-4, Cetyl alcohol 45294-07-3 81646-13-1, Behenyltrimethylammonium methosulfate  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty ammonium quaternary *compns.* containing alcs. and glycols as solvents for hair products)
- IT 112-53-8, Lauryl alcohol 112-72-1, Myristyl alcohol 112-92-5, Stearyl alcohol 661-19-8, Behenyl alcohol 6899-10-1, Cetyltrimethylammonium 17301-53-0, Behenyltrimethylammonium chloride 36653-82-4, Cetyl alcohol 45294-07-3 81646-13-1, Behenyltrimethylammonium methosulfate  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty ammonium quaternary *compns.* containing alcs. and glycols as solvents for hair products)
- RN 112-53-8 HCAPLUS  
CN 1-Dodecanol (9CI) (CA INDEX NAME)



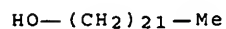
- RN 112-72-1 HCAPLUS  
CN 1-Tetradecanol (8CI, 9CI) (CA INDEX NAME)



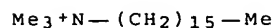
- RN 112-92-5 HCAPLUS  
CN 1-Octadecanol (8CI, 9CI) (CA INDEX NAME)



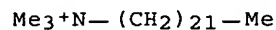
RN 661-19-8 HCAPLUS  
CN 1-Docosanol (6CI, 8CI, 9CI) (CA INDEX NAME)



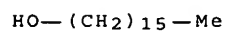
RN 6899-10-1 HCAPLUS  
CN 1-Hexadecanaminium, N,N,N-trimethyl- (9CI) (CA INDEX NAME)



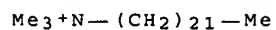
RN 17301-53-0 HCAPLUS  
CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 36653-82-4 HCAPLUS  
CN 1-Hexadecanol (9CI) (CA INDEX NAME)



RN 45294-07-3 HCAPLUS  
CN 1-Docosanaminium, N,N,N-trimethyl- (9CI) (CA INDEX NAME)



RN 81646-13-1 HCAPLUS  
CN 1-Docosanaminium, N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 45294-07-3  
CMF C25 H54 N

$\text{Me}_3\text{N}-(\text{CH}_2)_{21}-\text{Me}$ 

CM 2

CRN 21228-90-0

CMF C H3 O4 S

 $\text{Me}-\text{O}-\text{SO}_3^-$ 

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 29 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:23936 HCAPLUS Full-text

DOCUMENT NUMBER: 132:65784

TITLE: Garment cleaning *compositions* comprising salts of phosphoric acid ester anions and organic amine derivative cations and nonionic surfactants with good dirt removal properties and low foaming properties at rapid water flow

INVENTOR(S): Kawaguchi, Koji; Itayama, Hiroshi

PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000008078	A2	20000111	JP 1998-189949	19980618
PRIORITY APPLN. INFO.:			JP 1998-189949	19980618

OTHER SOURCE(S): MARPAT 132:65784

AB The *comps.* comprise (A) salts of organic phosphoric acid esters containing C6-14 alkyl groups and organic amine derivative cations containing C6-14 alkyl groups and (B) nonionic surfactants and are useful for cleaning of garments optionally comprising cellulosic fibers, synthetic fibers, wool, silk, or acetate fibers. An artificially soiled cotton knit was washed with an aqueous *composition* (A) containing 30% polyethylene glycol monolauryl ether and 10% trimethyloctylammonium octyl phosphate for 10 min in a washing machine and rinsed for 2 cycles to give a knit exhibiting cleaning power  $\geq 32\%$ . Foaming height was  $\leq 20$  mm on spraying aqueous 0.1% solution of A *composition* at high pressure and 50° or 90°.

IC ICM C11D001-86

ICS C11D001-34; C11D001-62; C11D001-72; C11D001-722

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

ST garment cleaning *compn* quaternary ammonium phosphate salt surfactant mixt; clothing cleaning *compn* quaternary ammonium

phosphate salt surfactant mixt; nonionic surfactant quaternary ammonium phosphate salt cleaning *compn* garment; amine phosphate salt nonionic surfactant mixt garment cleaning *compn*; foaming redn garment cleaning *compn* phosphate salt surfactant mixt; cotton clothing cleaning quaternary ammonium phosphate salt surfactant mixt; wool clothing cleaning quaternary ammonium phosphate salt surfactant mixt; silk clothing cleaning quaternary ammonium phosphate salt surfactant mixt

## IT Textiles

(cellulosic; garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and

## nonionic

surfactants with good dirt removal properties and low foaming properties at rapid water flow)

## IT Textiles

(cotton; garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and

## nonionic

surfactants with good dirt removal properties and low foaming properties at rapid water flow)

## IT Acetate fibers, uses

Synthetic polymeric fibers, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(fabrics; garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and

## nonionic

surfactants with good dirt removal properties and low foaming properties at rapid water flow)

## IT Clothing

*Detergents*

## Textiles

(garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and nonionic surfactants with good dirt removal properties and low foaming properties at rapid water flow)

IT *Polyoxyalkylenes, uses*

Quaternary ammonium compounds, uses

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and nonionic surfactants with good dirt removal properties and low foaming properties at rapid water flow)

## IT Surfactants

(nonionic; garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and

## nonionic

surfactants with good dirt removal properties and low foaming properties at rapid water flow)

## IT Textiles

(silk; garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and

## nonionic

surfactants with good dirt removal properties and low foaming properties at rapid water flow)

IT 9002-92-0, Polyethylene glycol monolauryl ether 9038-43-1, Polyethylene-polypropylene glycol monooctadecyl ether 37251-67-5, Polyethylene-polypropylene glycol monodecyl ether 37311-00-5, Polyethylene-polypropylene glycol monolauryl ether 65150-81-4, Oxirane, methyl-, polymer with oxirane, monotridecyl ether 176707-41-8 253450-42-9 253450-43-0

RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)

(garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and nonionic surfactants with good dirt removal properties and low foaming properties at rapid water flow)

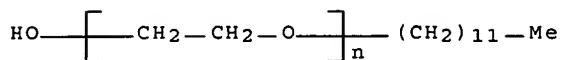
IT 9002-92-0, Polyethylene glycol monolauryl ether  
176707-41-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES  
(Uses)

(garment cleaning *compns.* comprising salts of phosphoric acid ester anions and organic amine derivative cations and nonionic surfactants with good dirt removal properties and low foaming properties at rapid water flow)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



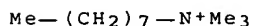
RN 176707-41-8 HCAPLUS

CN 1-Octanaminium, N,N,N-trimethyl-, octyl phosphate (9CI) (CA INDEX NAME)

CM 1

CRN 15461-38-8

CMF C11 H26 N



CM 2

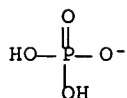
CRN 176707-40-7

CMF C8 H18 O . x H2 O4 P

CM 3

CRN 14066-20-7

CMF H2 O4 P





CM 4

CRN 111-87-5

CMF C8 H18 O

HO—(CH<sub>2</sub>)<sub>7</sub>—Me

L65 ANSWER 30 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:331512 HCAPLUS Full-text

DOCUMENT NUMBER: 131:20617

TITLE: Aqueous *compositions* without hydrolysis of esters and bleaches using them for rigid surfaces

INVENTOR(S): Aihara, Noboru; Yamada, Hiroyuki; Saiga, Koji; Tsukuda, Kazunori

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11140490	A2	19990525	JP 1997-306107	19971107
PRIORITY APPLN. INFO.:			JP 1997-306107	19971107
OTHER SOURCE(S):	MARPAT 131:20617			

AB Title *compns.* contain (a) ester *compds.*, (b) cationic surfactants, (c) nonionic surfactants, and (d) aqueous solvents at a/(b + c + d) ratio 99/1-4/96 and a + b + c + d 0.01-80%. Title bleaches composed of pouches containing the aqueous *compns.* and pouches containing H<sub>2</sub>O<sub>2</sub> or peroxides generating H<sub>2</sub>O<sub>2</sub> in aqueous solns. and the contents in the pouches are mixed in use. Thus, an aqueous solution containing 3% Na octyloxybenzenesulfonate and 1% stearyltrimethylammonium chloride showed retention of ester value after 1 mo. at 40° 85%. A detergent composed of a pouch containing the aqueous solution and a pouch containing an aqueous solution containing 6% H<sub>2</sub>O<sub>2</sub> and 20% CaCO<sub>3</sub> showed good bleaching effects.

IC ICM C11D003-395

ICS C07C069-734; C07C309-41; C11D003-20; D06L003-02

CC 46-6 (Surface Active Agents and Detergents)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(C1-6, solvents; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(alkoxylated, solvents; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)

IT Esters, uses

Peroxides, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)

IT Detergents

- (bleaching; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Surfactants  
(cationic; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT *Polyoxyalkylenes, uses*  
RL: TEM (Technical or engineered material use); USES (Uses)  
(ethers, surfactants; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Glycosides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(glucopyranosides, oligomeric, derivs., surfactants; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT *Polyoxyalkylenes, uses*  
RL: TEM (Technical or engineered material use); USES (Uses)  
(mono(alkyl group)-terminated, solvents; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Surfactants  
(nonionic; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Hydrolysis  
(prevention; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Glycols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(solvents; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT Quaternary ammonium compounds, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT 9003-56-9, ABS resin  
RL: MSC (Miscellaneous)  
(bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT 7722-84-1, Hydrogen peroxide, uses 15630-89-4, Sodium percarbonate 88379-99-1, Sodium octanoyloxybenzenesulfonate 88380-00-1 226213-69-0  
RL: TEM (Technical or engineered material use); USES (Uses)  
(bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT 64-17-5, Ethanol, uses 112-34-5, Butyldiglycol 122-99-6, Phenoxyethanol 123-51-3D, 3-alkoxy derivs. 616-45-5D, Pyrrolidone, N-alkyl derivs. 2568-33-4, Isoprene glycol 2687-94-7, N-Octylpyrrolidone 29387-86-8, Propylene glycol monobutyl ether 56539-66-3, 3-Methoxy-3-methyl-1-butanol  
RL: TEM (Technical or engineered material use); USES (Uses)  
(solvents; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)
- IT 112-03-8, Stearyltrimethylammonium chloride 139-07-1, Lauryldimethylbenzylammonium chloride 959-55-7, Octyldimethylbenzylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether 9005-00-9, Polyoxyethylene stearyl ether 58846-77-8, Decyl  $\beta$ -D-glucopyranoside 68238-81-3, Ethylene oxide-propylene oxide copolymer lauryl ether 162136-44-9 226087-57-6 226087-58-7 226213-73-6 226213-76-9 226217-87-4  
RL: TEM (Technical or engineered material use); USES (Uses)

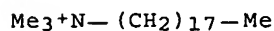
(surfactants; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)

IT 112-03-8, Stearyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether 9005-00-9, Polyoxyethylene stearyl ether 226087-57-6

RL: TEM (Technical or engineered material use); USES (Uses) (surfactants; bleaches containing aqueous surfactant *compns.* with suppressed hydrolysis of esters for cleaning of rigid surfaces)

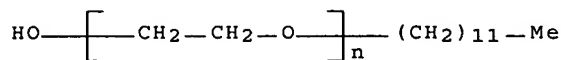
RN 112-03-8 HCAPLUS

CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



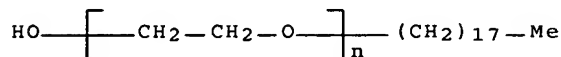
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



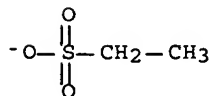
RN 226087-57-6 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, ethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 10047-83-3

CMF C2 H5 O3 S



CM 2

CRN 6899-10-1  
CMF C19 H42 N $\text{Me}_3\text{N}-(\text{CH}_2)_{15}-\text{Me}$ 

L65 ANSWER 31 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:134445 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:227496  
 TITLE: Liquid cleaning *compositions* giving uniform  
 foams for pump-type foamers  
 INVENTOR(S): Okabe, Shinya; Tozuka, Yoko  
 PATENT ASSIGNEE(S): Pola Chemical Industries, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11050089	A2	19990223	JP 1997-224319	19970806
PRIORITY APPLN. INFO.:			JP 1997-224319	19970806

AB Title *compns.* contain (A) anionic surfactants, amphoteric surfactants, and/or cationic surfactants and (B) nonionic surfactants and have viscosity ( $\eta$ )  $\leq 200$  cS. Thus, a *composition* ( $\eta$  15 cS) comprising propylene glycol 4, KOH 30, phenylethanol 0.3, polyoxyethylene monostearate 1, Na polyoxyethylene lauryl ether sulfate 10, coco fatty acid 10, and H<sub>2</sub>O 44.7 parts was put in a pump-type foamer to give uniform foams.

IC ICM C11D001-83  
ICS A61K007-50; B65D083-76; C11D001-835; C11D001-86

CC 62-1 (Essential Oils and Cosmetics)

ST cleaning *compn* pump type foamer; polyoxyethylene ether anionic surfactant cleaning *compn*

IT *Polyoxyalkylenes, uses*  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl ethers or alkyl allyl ethers; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)

IT Surfactants  
 (amphoteric; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)

IT Surfactants  
 (anionic; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)

IT Surfactants  
 (cationic; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)

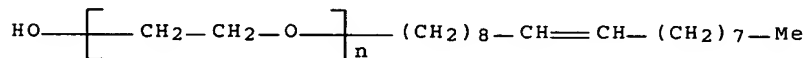
IT Fatty acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coco; liquid cleaning *compns.* containing nonionic surfactants for

- pump-type foamers) (liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- IT **Detergents**  
(liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(long-chain, esters with polyoxyethylene; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- IT Surfactants  
(nonionic; liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- IT 112-03-8 151-21-3, Sodium laurylsulfate, uses 9004-98-2  
, Polyoxyethylene oleyl ether 9004-99-3, Polyoxyethylene monostearate 9005-00-9, Polyoxyethylene stearyl ether 25322-68-3D, alkyl ethers or alkyl allyl ethers 26183-44-8, Polyoxyethylene lauryl ether sulfate 59149-04-1D, N-Carboxymethyl-N-hydroxyethylimidazolinium betaine, 2-alkyl derivs.  
RL: TEM (Technical or engineered material use); USES (Uses)  
(liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- IT 112-03-8 9004-98-2, Polyoxyethylene oleyl ether  
9005-00-9, Polyoxyethylene stearyl ether  
RL: TEM (Technical or engineered material use); USES (Uses)  
(liquid cleaning *compns.* containing nonionic surfactants for pump-type foamers)
- RN 112-03-8 HCAPLUS
- CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

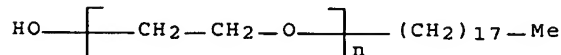
$\text{Me}_3\text{N}^+ - (\text{CH}_2)_{17} - \text{Me}$

●  $\text{Cl}^-$

- RN 9004-98-2 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



- RN 9005-00-9 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 32 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1999:107158 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:184128  
 TITLE: Solid cleaning *compositions* with good  
 bleaching and disinfecting properties for rigid  
 surfaces  
 INVENTOR(S): Yamazaki, Yoshihiro; Honda, Yoshihiro; Okano, Tetsuya;  
 Matsuo, Noboru; Moriyama, Tadashi  
 PATENT ASSIGNEE(S): Kao Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11035987	A2	19990209	JP 1997-200136	19970725
PRIORITY APPLN. INFO.:			JP 1997-200136	19970725

AB Title *compns.* contain (a) Na percarbonate, K percarbonate, Na perborate, K perborate, KHSO<sub>5</sub>, NaHSO<sub>5</sub>, and/or Na<sub>2</sub>SO<sub>4</sub>-NaCl-H<sub>2</sub>O<sub>2</sub> adduct, (b) cationic disinfectants, and (c) blowing agents composed of carbonates or bicarbonates and solid acids. The *compns.* may further contain (d) chelating agents, (e) nonionic surfactants, anionic surfactants, cationic surfactants, and/or amphoteric surfactants, and/or (f) silicates and/or sulfates. Thus, a *composition* comprising Na percarbonate 30, didecyldimethylammonium chloride 5, NaHCO<sub>3</sub> 10, succinic acid 10, and NaCO<sub>3</sub> 45 parts showed good detergency.

IC ICM C11D003-48  
 ICS A01N025-08; A01N025-10; A01N025-14; A01N033-12; A01N047-44;  
 C11D003-04

CC 46-6 (Surface Active Agents and Detergents)

IT *Polyoxyalkylenes, uses*  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl ethers, surfactants; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Surfactants  
 (amphoteric; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Surfactants  
 (anionic; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Surfactants  
 (cationic; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Surfactants  
 (nonionic; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (oxo, blowing agents; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

IT Bleaching agents  
 Blowing agents  
 Chelating agents  
*Detergents*  
 Disinfectants

- (solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT Amine oxides  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 50-21-5, uses 50-81-7, Ascorbic acid, uses 56-84-8, L-Aspartic acid, uses 56-86-0, L-Glutamic acid, uses 65-85-0, Benzoic acid, uses 77-92-9, Citric acid, uses 87-69-4, uses 98-79-3 110-15-6, Butanedioic acid, uses 110-16-7, 2-Butenedioic acid (2Z)-, uses 110-17-8, 2-Butenedioic acid (2E)-, uses 110-94-1, Glutaric acid 124-04-9, Hexanedioic acid, uses 141-82-2, Malonic acid, uses 144-55-8, Sodium bicarbonate, uses 298-14-6, Potassium bicarbonate 471-34-1, Calcium carbonate, uses 506-87-6, Ammonium carbonate 526-95-4, D-Gluconic acid 546-93-0, Magnesium carbonate 584-08-7 994-36-5, Sodium citrate 1066-33-7, Ammonium bicarbonate 6915-15-7, Malic acid  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (blowing agents; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 60-00-4, Ethylenediaminetetraacetic acid, uses 64-02-8, Tetrasodium ethylenediaminetetraacetate 67-42-5 67-43-6, Diethylenetriaminepentaacetic acid 139-13-9, Nitrilotriacetic acid 142-73-4, Iminodiacetic acid 150-39-0, Hydroxyethylethylenediaminetriacetic acid 869-52-3, Triethylenetetraminehexaacetic acid 1343-98-2, Silicic acid 7372-13-6, N-(o-Hydroxybenzyl)iminodiacetic acid 9003-01-4, Polyacrylic acid 10380-08-2, Tripolyphosphoric acid 13598-36-2D, Phosphonic acid, salts 89298-81-7, Isoamylene-maleic acid copolymer  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (chelating agents; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 112-00-5, Quartamin 24P 121-54-0 122-19-0, Stearylbenzyltrimethylammonium chloride 139-07-1, Laurylbenzyltrimethylammonium chloride 7173-51-5, Didecyltrimethylammonium chloride  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (disinfectants; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 497-19-8, Carbonic acid disodium salt, uses 1312-76-1, Potassium silicate 1343-88-0, Magnesium silicate 1344-09-8, Sodium silicate 1344-95-2, Calcium silicate 7487-88-9, Magnesium sulfate, uses 7757-82-6, Sodium sulfate, uses 7778-18-9, Calcium sulfate 7778-80-5, Potassium sulfate, uses 7783-20-2, Ammonium sulfate, uses 11138-47-9, Sodium perborate 12653-78-0, Potassium perborate 15630-89-4, Sodium percarbonate 25482-78-4 28831-12-1, Sodium monopersulfate 36411-33-3 220572-78-1  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 1643-20-5, Amphitol 20N 9002-92-0 25322-68-3D, alkyl ethers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants; solid cleaning *compns.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)
- IT 112-00-5, Quartamin 24P 7173-51-5, Didecyltrimethylammonium chloride  
 RL: TEM (Technical or engineered material use); USES (Uses)

(disinfectants, solid cleaning *compos.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

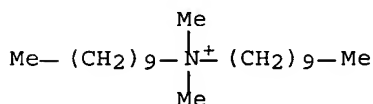
RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

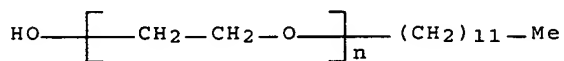


IT 9002-92-0

RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; solid cleaning *compos.* containing inorg. peroxides, cationic disinfectants, and blowing agents for rigid surfaces)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 33 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:104754 HCAPLUS Full-text

DOCUMENT NUMBER: 130:184118

TITLE: Antibacterial solid cleaning *compositions*  
containing N,N-bis(carboxynethyl)serine salts for hard surfaces with good cleaning and bleaching properties

INVENTOR(S): Yamazaki, Yoshihiro; Yamazawa, Susumu; Matsuo, Noboru

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11035996	A2	19990209	JP 1997-194021	19970718
PRIORITY APPLN. INFO.:			JP 1997-194021	19970718
OTHER SOURCE(S):		MARPAT 130:184118		

- AB The cleaning *compns.* comprise (A) Na percarbonate (I) or Na perborate, (B) 0.5-100 parts cationic compound bactericides per 100 parts A, and (C) 0.05-100 parts N,N-bis(carboxymethyl)serine salts (MO<sub>2</sub>CCH<sub>2</sub>)<sub>2</sub>NCH(CO<sub>2</sub>M)CH<sub>2</sub>OH (M = H, Na, K, NH<sub>4</sub>) per 100 parts A and optionally contain 10-800 parts alkali metal salts per 100 parts A and 0.5-100 parts nonionic surfactants per 100 parts A. The *compns.* are useful for cleaning plastics, metals, glass, and tiles and are specially useful for cleaning containers for food and bottles for drinks (no data). I 0.9, didecyldimethylammonium chloride 0.05, N,N-bis(carboxymethyl)serine trisodium salt 0.05, and H<sub>2</sub>O 99 parts were mixed to give a cleaning *composition* exhibiting oil removal amount 62%, protein removal amount 88%, and starch removal amount 76% at cleaning temperature 25 ± 2° and showing effective O<sub>2</sub> retention 88%, bactericide retention 96%, maximum dilution ratio 3000 for E. coli extinction amount 100%, and maximum dilution ratio 5000 for Staphylococcus aureus extinction amount 100%.
- IC ICM C11D010-02  
ICS C11D017-00; C11D010-02; C11D001-10; C11D003-48; C11D003-39; C11D003-08; C11D003-10; C11D003-04; C11D001-66
- CC 46-6 (Surface Active Agents and Detergents)  
Section cross-reference(s): 17, 38, 42, 57
- ST antibacterial solid cleaning *compn*; detergent antibacterial solid cleaning *compn*; food container cleaning *compn* antibacterial; drink bottle cleaning *compn* antibacterial; sodium percarbonate bleach antibacterial solid cleaning *compn*; sodium perborate bleach antibacterial solid cleaning *compn*; cationic bactericide antibacterial solid cleaning *compn*; biscalboxymethylserine salt chelate antibacterial cleaning *compn*; serine biscalboxymethyl salt chelate antibacterial detergent; plastic cleaning *compn* antibacterial; glass cleaning *compn* antibacterial; nonionic surfactant antibacterial solid cleaning *compn*
- IT Chelating agents  
(N,N-bis(carboxynethyl)serine salts; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT *Polyoxyalkylenes, uses*  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(alkyl group-terminated, surfactants; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Glycosides  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(alkyl polyglycosides, surfactants; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Quaternary ammonium compounds, properties  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(alkylbenzyl dimethyl, chlorides, bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxynethyl)serine salts for hard surfaces with good cleaning and bleaching properties)
- IT *Detergents*

- (antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Alkali metal salts  
Carbonates, uses  
Silicates, uses  
Sulfates, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Tiles  
(antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties for)
- IT Glass, uses  
Metals, uses  
Plastics, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties for)
- IT Quaternary ammonium compounds, properties  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(bactericides; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Beverages  
(bottle; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties for)
- IT Antibacterial agents  
(cationic compds.; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Surfactants  
(cationic, bactericides; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Fatty acids, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(esters, with sucrose, surfactants; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT *Polyoxyalkylenes*, uses  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(ethers, alkylene ethers, surfactants; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)
- IT Containers  
(food; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties for)
- IT Bottles  
(for drink; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties for)

IT Surfactants  
(nonionic; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT Bleaching agents  
(sodium percarbonate or sodium perborate; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT Amino acids, properties  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(surfactants, bactericides; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT 497-19-8, Carbonic acid disodium salt, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT 7173-51-5, Didecyldimethylammonium chloride  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)serine salts for hard surfaces with good cleaning and bleaching properties)

IT 11138-47-9, Sodium perborate 15630-89-4, Sodium percarbonate  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(bleaching agent; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)serine salts for hard surfaces with good cleaning and bleaching properties)

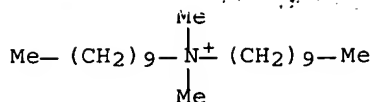
IT 182000-79-9  
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(chelating agent; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT 9002-92-0 9005-63-4, Polyoxyethylene sorbitan ester  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(surfactant; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

IT 7173-51-5, Didecyldimethylammonium chloride  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)serine salts for hard surfaces with good cleaning and bleaching properties)

RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



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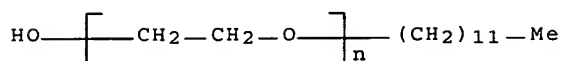
IT 9002-92-0

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(surfactant; antibacterial solid cleaning *compns.* containing serine-N,N-diacetate salts for hard surfaces with good cleaning and bleaching properties)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 34 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:104753 HCAPLUS Full-text

DOCUMENT NUMBER: 130:184117

TITLE: Antibacterial solid cleaning *compositions* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties

INVENTOR(S): Yamazaki, Yoshihiro; Yamazawa, Susumu; Matsuo, Noboru

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11035994	A2	19990209	JP 1997-194020	19970718
PRIORITY APPLN. INFO.:			JP 1997-194020	19970718
OTHER SOURCE(S):		MARPAT 130:184117		

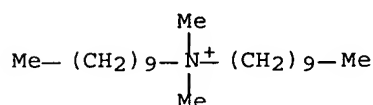
AB The cleaning *compns.* comprise (A) Na percarbonate (I) or Na perborate, (B) 0.5-100 parts cationic compound bactericides per 100 parts A, and (C) 0.05-100 parts N,N-bis(carboxymethyl)glycine salts (MO<sub>2</sub>CCH<sub>2</sub>)<sub>2</sub>NCHRCO<sub>2</sub>M (M = H, Na, K, NH<sub>4</sub>; R = C<sub>1</sub>-18 alkyl) per 100 parts A and optionally contain 10-800 parts alkali metal salts per 100 parts A and 0.5-100 parts nonionic surfactants per 100 parts A. I 0.9, didecyldimethylammonium chloride 0.05, N,N-bis(carboxymethyl)glycine trisodium salt 0.05, and H<sub>2</sub>O 99 parts were mixed to give a cleaning *composition* exhibiting oil removal amount 62%, protein removal amount 88%, starch removal amount 76% at cleaning temperature 25 ± 2° and

showing effective O2 retention 88%, bactericide retention 96%; maximum dilution ratio 3000 for E. coli extinction amount 100%, and maximum dilution ratio 5000 for Staphylococcus aureus extinction amount 100%.

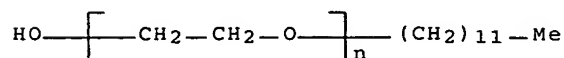
- IC ICM C11D007-60  
ICS A01N033-12; A01N047-44; C11D001-62; C11D007-60; C11D007-18; C11D007-32
- CC 46-6 (Surface Active Agents and Detergents)  
Section cross-reference(s): 17, 38, 42, 57
- ST antibacterial solid cleaning *compn*; detergent antibacterial solid cleaning *compn*; food container cleaning *compn* antibacterial; drink bottle cleaning *compn* antibacterial; sodium percarbonate bleach antibacterial solid cleaning *compn*; sodium perborate bleach antibacterial solid cleaning *compn*; cationic bactericide antibacterial solid cleaning *compn*; nonionic surfactant antibacterial solid cleaning *compn*; biscarboxymethylglycine salt chelate antibacterial cleaning *compn*; glycine biscarboxymethyl salt chelate antibacterial detergent; plastic cleaning *compn* antibacterial; glass cleaning *compn* antibacterial
- IT Chelating agents  
(N,N-bis(carboxymethyl)glycine salts; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT **Polyoxyalkylenes, uses**  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(alkyl group-terminated, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT Glycosides  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(alkyl polyglycosides, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT Quaternary ammonium compounds, properties  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(alkylbenzyltrimethyl, chlorides, bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT **Detergents**  
(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT Alkali metal salts  
Carbonates, uses  
Silicates, uses  
Sulfates, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT Tiles  
(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties for)
- IT Glass, uses  
Metals, uses  
Plastics, uses

- RL: TEM (Technical or engineered material use); USES (Uses)  
 (antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties for)
- IT Quaternary ammonium compounds, properties  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological  
 study); USES (Uses)  
 (bactericides; antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties)
- IT Beverages  
 (bottles; antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties for)
- IT Antibacterial agents  
 (cationic compds.; antibacterial solid cleaning *compns.*  
 containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties)
- IT Surfactants  
 (cationic, bactericides; antibacterial solid cleaning *compns.*  
 containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties)
- IT Fatty acids, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (esters, with sucrose, surfactants; antibacterial solid cleaning  
*compns.* containing N,N-bis(carboxymethyl)glycine salts for hard  
 surfaces with good cleaning and bleaching properties)
- IT Polyoxyalkylenes, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (ethers, polyoxyethylene alkylene ethers; antibacterial solid cleaning  
*compns.* containing N,N-bis(carboxymethyl)glycine salts for hard  
 surfaces with good cleaning and bleaching properties)
- IT Containers  
 (food; antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties for)
- IT Bottles  
 (for drink; antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties for)
- IT Surfactants  
 (nonionic; antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good  
 cleaning and bleaching properties)
- IT Bleaching agents  
 (sodium percarbonate or sodium perborate; antibacterial solid cleaning  
*compns.* containing N,N-bis(carboxymethyl)glycine salts for hard  
 surfaces with good cleaning and bleaching properties)
- IT Amino acids, properties  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological  
 study); USES (Uses)  
 (surfactants, bactericides; antibacterial solid cleaning *compns.*  
 . containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with  
 good cleaning and bleaching properties)
- IT 497-19-8, Carbonic acid disodium salt, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (antibacterial solid cleaning *compns.* containing  
 N,N-bis(carboxymethyl)glycine salts for hard surfaces with good

- cleaning and bleaching properties)
- IT 7173-51-5, Didecyldimethylammonium chloride  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT 11138-47-9, Sodium perborate 15630-89-4, Sodium percarbonate  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (bleaching agent; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT 5064-31-3  
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
 (chelating agent; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT 9002-92-0 9005-63-4, Polyoxyethylene sorbitan ester  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- IT 7173-51-5, Didecyldimethylammonium chloride  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- RN 7173-51-5 HCAPLUS
- CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



- IT 9002-92-0  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)glycine salts for hard surfaces with good cleaning and bleaching properties)
- RN 9002-92-0 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 35 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:104749 HCAPLUS Full-text

DOCUMENT NUMBER: 130:184116

TITLE: Antibacterial solid cleaning *compositions* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties

INVENTOR(S): Yamazaki, Yoshihiro; Ito, Suminori; Itoi, Takashi

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11035990	A2	19990209	JP 1997-194019	19970718
PRIORITY APPLN. INFO.:			JP 1997-194019	19970718

OTHER SOURCE(S): MARPAT 130:184116

AB The cleaning *compsns.* comprise (A) Na percarbonate (I) or Na perborate, (B) 0.5-100 parts cationic compound bactericides per 100 parts A, and (C) 0.05-100 parts N,N-bis(carboxymethyl)asparaginic acid salts (MO<sub>2</sub>CCH<sub>2</sub>)<sub>2</sub>NCH(CO<sub>2</sub>M)CHRCO<sub>2</sub>M (M = H, Na, K, NH<sub>4</sub>; R = H, OH) per 100 parts A and optionally contain 10-800 parts alkali metal salts per 100 parts A and 0.5-100 parts nonionic surfactants per 100 parts A. The *compsns.* are useful for cleaning plastics, metals, glass, and tiles and are specially useful for cleaning food containers and bottles for drinks (no data). I 0.9, didecyldimethylammonium chloride 0.05, N,N- bis(carboxymethyl)asparaginic acid tetrasodium salt 0.05, and H<sub>2</sub>O 99 parts were mixed to give a cleaning *composition* exhibiting oil removal amount 63%, protein removal amount 87%, and starch removal amount 77% at cleaning temperature 25 ± 2° and showing effective O<sub>2</sub> retention 86%, bactericide retention 96%, maximum dilution ratio 3000 for E. coli extinction amount 100%, and maximum dilution ratio 5000 for Staphylococcus aureus extinction amount 100%.

IC ICM C11D007-18

ICS C11D001-38; C11D003-33; C11D003-39

CC 46-6 (Surface Active Agents and Detergents)

Section cross-reference(s): 17, 38, 42, 57

ST antibacterial solid cleaning *compn*; detergent antibacterial solid cleaning *compn*; food container cleaning *compn* antibacterial; drink bottle cleaning *compn* antibacterial; sodium percarbonate bleach antibacterial cleaning *compn*; sodium perborate bleach antibacterial cleaning *compn*; cationic bactericide antibacterial solid cleaning *compn*; biscalboxymethylasparaginate salt chelate antibacterial cleaning *compn*; asparaginic acid biscalboxymethyl salt chelate detergent; plastic cleaning *compn* antibacterial; glass cleaning *compn* antibacterial

IT Chelating agents

(N,N-bis(carboxymethyl)asparaginic acid salts; antibacterial solid cleaning *compsns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT *Polyoxyalkylenes, uses*



RI: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(alkyl group-terminated, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Glycosides

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(alkyl polyglycosides, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Quaternary ammonium compounds, properties

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(alkylbenzylidimethyl, chlorides, bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Detergents

(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Alkali metal salts

Carbonates, uses

Silicates, uses

Sulfates, uses

RL: MOA (Modifier or additive use); USES (Uses)

(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Tiles

(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties for)

IT Glass, uses

Metals, uses

Plastics, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties for)

IT Quaternary ammonium compounds, properties

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Beverages

(bottles; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties for)

IT Antibacterial agents

(cationic *compds.*; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Surfactants

(cationic, bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

IT Fatty acids, uses

- RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (esters, with sucrose, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **Polyoxyalkylenes, uses**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (ethers, polyoxyethylene alkylene ethers, surfactants; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **Containers**  
 (food; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties for)
- IT **Bottles**  
 (for drink; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties for)
- IT **Surfactants**  
 (nonionic; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **Bleaching agents**  
 (sodium percarbonate or sodium perborate; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **Amino acids, properties**  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (surfactants, bactericides; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **497-19-8, Carbonic acid disodium salt, uses**  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **7173-51-5, Didecyldimethylammonium chloride**  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **11138-47-9, Sodium perborate 15630-89-4, Sodium percarbonate**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (bleaching agent; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **34612-80-1**  
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
 (chelating agents; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)
- IT **9002-92-0 9005-63-4, Polyoxyethylene sorbitan ester**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (surfactant; antibacterial solid cleaning *compns.* containing

N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

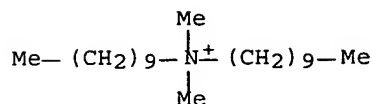
IT 7173-51-5, Didecyldimethylammonium chloride

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(bactericide; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



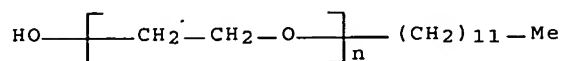
IT 9002-92-0

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(surfactant; antibacterial solid cleaning *compns.* containing N,N-bis(carboxymethyl)asparaginic acid salts for hard surfaces with good cleaning and bleaching properties)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 36 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:78650 HCAPLUS Full-text

DOCUMENT NUMBER: 130:169860

TITLE: Laundry detergent *compositions* for dry-cleaning

INVENTOR(S): Kawamura, Yoshihiro; Hama, Yuhei; Kondo, Shiro; Kawai, Terumi

PATENT ASSIGNEE(S): Nikka Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11029798	A2	19990202	JP 1997-199446	19970709

JP 3611703 B2 20050119 JP Patent No. 3857

PRIORITY APPL. INFO.:

JP 1997-120446

19970709

OTHER SOURCE(S): MARPAT 130:169860

AB Title *compns.* contain (1) [R1R2R3R4M+] R5O(R6O)mSO<sub>3</sub><sup>-</sup> and/or (2) [R7R8R9R10N+] R11-p-C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub><sup>-</sup>, (3) [R12R13R14R15N+]n Xn<sup>-</sup>, and (4) R16O(R17O)pH (R1, R7 = C<sub>8</sub>-22 alkyl, alkenyl, or hydroxyalkyl; R2, R3, R8, R9 = C<sub>1</sub>-4 alkyl; R4, R10 = C<sub>2</sub>-4 hydroxyalkyl; R5 = C<sub>8</sub>-18 alkyl, alkenyl, or alkylaryl; R6 = C<sub>2</sub>-4 alkylene; R11 = C<sub>10</sub>-14 alkyl; R12 C<sub>12</sub>-22 alkyl, alkenyl, or hydroxyalkyl; R13-15 = C<sub>1</sub>-4 alkyl, C<sub>2</sub>-4 hydroxyalkyl; R16 = C<sub>8</sub>-22 alkyl, alkenyl, alkylaryl; R17 = C<sub>2</sub>-3 alkylene; Xn<sup>-</sup> = halogen ion, C<sub>1</sub>-3 monoalkylsulfate ion, sulfate ion, nitrate ion, phosphate ion, benzenesulfonate ion, p-toluenesulfonate ion, xylenesulfonate ion, benzoate ion, C<sub>2</sub>-3 hydroxyalkanecarbonate ion; m = 0-10; n = 1-3; p = 1-15) and show volume resistivity of petroleum solvents  $\leq 1.0 + 1010 \Omega\text{-cm}$  as 1 volume% in petroleum solvents. Thus, a detergent *composition* comprising oleyldimethylhydroxyethylammonium polyoxyethylene lauryl ether sulfate 10, lauryldiethylhydroxypropylammonium dodecylbenzenesulfonate 15, stearyldihydroxyethylmethylammonium methylsulfate 5, polyoxyethylene nonylphenyl ether 20, H<sub>2</sub>O 2, and Brightsol 48 parts showed volume resistivity  $0.83 + 109 \Omega\text{-cm}$ .

IC ICM C11D007-50

ICS C11D007-24; C11D007-32; C11D007-34

CC 46-5 (Surface Active Agents and Detergents)

IT *Detergents*

(dry-cleaning; laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

IT Quaternary ammonium compounds, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

IT *Polyoxyalkylenes, uses*

RL: TEM (Technical or engineered material use); USES (Uses)

(monoethers; laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

IT *Polyoxyalkylenes, uses*

RL: TEM (Technical or engineered material use); USES (Uses)

(sulfo-terminated, ammonium salts; laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., ammonium salts, uses

104-15-4D, p-Toluenesulfonic acid,  $\beta$ -hydroxyalkyldimethylhydroxypropylammonium salt 9002-92-0 9016-45-9 139984-19-3

220375-25-7 220424-79-3 220424-81-7

RL: TEM (Technical or engineered material use); USES (Uses)

(laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

IT 9002-92-0 139984-19-3 220375-25-7

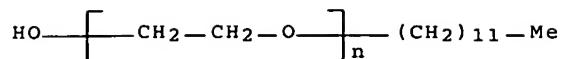
220424-79-3 220424-81-7

RL: TEM (Technical or engineered material use); USES (Uses)

(laundry detergent *compns.* containing ammonium polyoxyalkylenesulfates and/or ammonium alkylbenzenesulfonates, ammonium salts, and polyoxyalkylene monoethers for dry cleaning)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



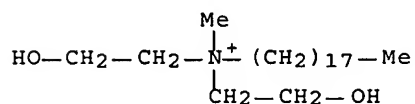
RN 139984-19-3 HCAPLUS

CN 1-Octadecanaminium, N,N-bis(2-hydroxyethyl)-N-methyl-, methanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 60687-87-8

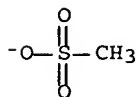
CMF C23 H50 N O2



CM 2

CRN 16053-58-0

CMF C H3 O3 S



RN 220375-25-7 HCAPLUS

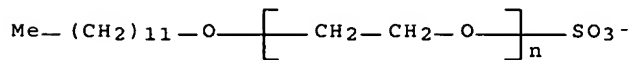
CN 9-Octadecen-1-aminium, N-(2-hydroxyethyl)-N,N-dimethyl-, (9Z)-, salt with  $\alpha$ -sulfo- $\omega$ -(dodecyloxy) [poly(oxy-1,2-ethanediyl)] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 71765-09-8

CMF (C2 H4 O)<sub>n</sub> C12 H25 O4 S

CCI PMS

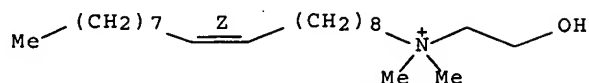


CM 2

CRN 45279-74-1

CMF C22 H46 N O

Double bond geometry as shown.



RN 220424-79-3 HCAPLUS

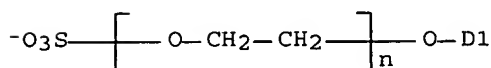
CN 1-Octadecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, salt with  
 $\alpha$ -sulfo- $\omega$ -(nonylphenoxy) [poly(oxy-1,2-ethanediyl)] (1:1) (9CI)  
 (CA INDEX NAME)

CM 1

CRN 155482-99-8

CMF (C2 H4 O)<sub>n</sub> C15 H23 O4 S

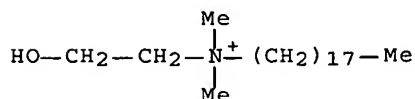
CCI IDS, PMS

D1—(CH<sub>2</sub>)<sub>8</sub>—Me

CM 2

CRN 45280-10-2

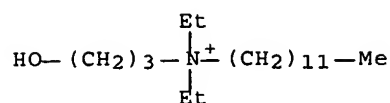
CMF C22 H48 N O



RN 220424-81-7 HCAPLUS

CN 1-Dodecanaminium, N,N-diethyl-N-(3-hydroxypropyl)-, salt with  
 dodecylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1  
 CRN 123652-48-2  
 CMF C19 H42 N O



CM 2

CRN 1330-69-4  
 CMF C18 H29 O3 S  
 CCI IDS



D1-SO<sub>3</sub><sup>-</sup>

Me-(CH<sub>2</sub>)<sub>11</sub>-D1

L65 ANSWER 37 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:78648 HCAPLUS Full-text

DOCUMENT NUMBER: 130:198173

TITLE: Solid detergent *compositions* having good  
 disinfecting properties and bleaching properties for  
 rigid surfaces

INVENTOR(S): Yamazaki, Yoshihiro; Yamazawa, Susumu; Matsuo, Noboru;  
 Itoi, Takashi

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11029796	A2	19990202	JP 1997-183599	19970709
JP 3198079	B2	20010813		

PRIORITY APPLN. INFO.: JP 1997-183599 19970709

AB Title *compsns.* contain (a) Na percarbonate or Na perborate 100, (b) cationic  
 disinfectants 0.5-100, (c) metal chelating agents 0.05-100, and optionally (d)  
 inorg. alkali salts 0.5-100 and/or (e) nonionic surfactant 0.5-100 parts.

Thus, a detergent containing Na percarbonate 0.990, didecyldimethylammonium chloride 0.055, and Na citrate 0.055% showed good detergency, disinfecting properties, and storage stability.

IC ICM C11D007-38

ICS C09K003-00; C11D007-18; C11D007-60; C11D007-22; C11D007-08

CC 46-6 (Surface Active Agents and Detergents)

IT *Polyoxyalkylenes, uses*

RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl ethers, surfactants; solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT Glycosides

RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl polyglycosides, surfactants; solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT Chelating agents

*Detergents*

Disinfectants

(solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT Carbonates, uses

Silicates, uses

Sulfates, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT 60-00-4, Ethylenediaminetetraacetic acid, uses 64-02-8, Tetrasodium ethylenediaminetetraacetate 67-43-6, Diethylenetriaminepentaacetic acid 77-92-9, Citric acid, uses 110-16-7, 2-Butenedioic acid (2Z)-, uses 139-13-9, Nitrilotriacetic acid 150-39-0, Hydroxyethylethylenediaminetriacetic acid 526-95-4, D-Gluconic acid 869-52-3, Triethylenetetraminehexaacetic acid 929-59-9 994-36-5, Sodium citrate 1343-98-2, Silicic acid 4472-12-2 7028-40-2, Tetraacetic acid 9003-01-4, Polyacrylic acid 10380-08-2, Tripolyphosphoric acid 13598-36-2, Phosphonic acid 89298-81-7, Isoamylene-maleic acid copolymer 220761-77-3

RL: TEM (Technical or engineered material use); USES (Uses)  
(chelating agents; solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT 139-07-1, Laurylbenzyltrimethylammonium chloride 139-08-2,

Myristyltrimethylbenzylammonium chloride 7173-51-5,

Didecyldimethylammonium chloride

RL: TEM (Technical or engineered material use); USES (Uses)  
(disinfectants; solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT 15630-89-4, Sodium percarbonate

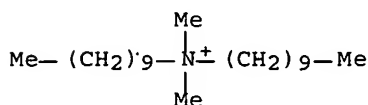
RL: TEM (Technical or engineered material use); USES (Uses)  
(solid detergent *compns.* containing sodium percarbonate or perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

IT 497-19-8, Carbonic acid disodium salt, uses 11138-47-9, Sodium perborate

RL: TEM (Technical or engineered material use); USES (Uses)  
(solid detergent *compns.* containing sodium percarbonate or sodium perborate, cationic disinfectants, and metal chelating agents for rigid surfaces)

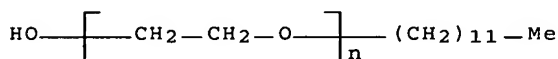


IT 57-50-1D, Sucrose, esters with fatty acids 9002-92-0  
 9005-63-4D, Polyoxyethylene sorbitan, fatty acid esters 25322-68-5D,  
 alkyl ethers 25618-55-7D, Polyglycerin, alkyl ethers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants; solid detergent *compns.* containing sodium  
 percarbonate or sodium perborate, cationic disinfectants, and metal  
 chelating agents for rigid surfaces)  
 IT 7173-51-5, Didecyldimethylammonium chloride  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (disinfectants; solid detergent *compns.* containing sodium  
 percarbonate or sodium perborate, cationic disinfectants, and metal  
 chelating agents for rigid surfaces)  
 RN 7173-51-5 HCAPLUS  
 CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

IT 9002-92-0  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants; solid detergent *compns.* containing sodium  
 percarbonate or sodium perborate, cationic disinfectants, and metal  
 chelating agents for rigid surfaces)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



L65 ANSWER 38 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1998:795674 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:97207  
 TITLE: Antibacterial detergent *compositions* and  
 method of their application  
 INVENTOR(S): Maruyama, Shinji; Katagiri, Fumito; Miyakawa, Kenichi;  
 Edagi, Mizue  
 PATENT ASSIGNEE(S): Ti Poll K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

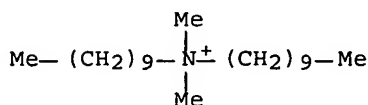
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10330792	A2	19981215	JP 1997-138159	19970528
PRIORITY APPLN. INFO.:			JP 1997-138159	19970528
OTHER SOURCE(S):		MARPAT 130:97207		
AB	The foamable <i>compns.</i> , useful for cleaning of vertical hard surfaces by spraying, comprise (A) organic solvents having surface tension $\leq 70$ dyne/cm, (B) surfactants, (C) bactericides, and H <sub>2</sub> O. The method is characterized by the use of A 1-1000, B 10-10,000, and C 1-1000 mg/L. Thus, an aqueous composition containing diethylene glycol mono-Et ether acetate 7.0, Noigen ET 115 (ethoxylated C12-14-secondary alc.) 25.0, lauric acid diethanolamide 5.0, and didecyldimethylammonium chloride 8.0% showed good foamability, sprayability, cleaning power, and antibacterial effects.			
IC	ICM C11D003-48 ICS A61L002-18			
CC	46-6 (Surface Active Agents and Detergents) Section cross-reference(s): 5			
IT	Alcohols, uses RL: TEM (Technical or engineered material use); USES (Uses) (C12-13, ethoxylated, Noigen ET 147; sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	Alcohols, uses RL: TEM (Technical or engineered material use); USES (Uses) (C12-14, ethoxylated, Noigen ET 115; sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	<i>Polyoxyalkylenes</i> , uses RL: TEM (Technical or engineered material use); USES (Uses) (alkyl(phenyl) ethers; sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	Phenols, uses RL: TEM (Technical or engineered material use); USES (Uses) (alkyl, ethoxylated; sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	Amides, uses RL: TEM (Technical or engineered material use); USES (Uses) (coco, N,N-bis(hydroxyethyl); sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	Amides, uses RL: TEM (Technical or engineered material use); USES (Uses) (fatty, palm-oil, diethanolamides; sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	Antibacterial agents <i>Detergents</i> Foaming agents (sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	99-76-3 3380-34-5, 2,4,4'-Trichloro-2'-hydroxydiphenyl ether 7173-51-5, Didecyldimethylammonium chloride 32289-58-0, Poly(hexamethylenebiguanide) hydrochloride RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (sprayable and foamable antibacterial detergent <i>compns.</i> )			
IT	68-04-2, Trisodium citrate 110-80-5, Ethyl cellosolve 112-15-2, Diethylene glycol monoethyl ether acetate 120-40-1, Lauric acid diethanolamide 124-17-4, Diethylene glycol monobutyl ether acetate 139-33-3 141-43-5, uses 1310-58-3, Potassium hydroxide, uses 1643-20-5, Lauryldimethylamine oxide 4838-65-7 5064-31-3, NTA trisodium salt 6834-92-0, Sodium metasilicate 9002-92-0 25322-68-3D, Polyethylene glycol, alkyl(phenyl) ethers 219484-60-3, Noigen ET 110			

RL: TEM (Technical or engineered material use); USES (Uses)  
 (sprayable and foamable antibacterial detergent *compns.*)

IT 7173-51-5, Didecyldimethylammonium chloride  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (sprayable and foamable antibacterial detergent *compns.*)

RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

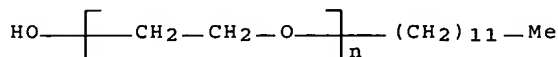


● Cl<sup>-</sup>

IT 9002-92-0  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (sprayable and foamable antibacterial detergent *compns.*)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 39 OF 58 HCAPLUS. COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:621275 HCAPLUS Full-text

DOCUMENT NUMBER: 129:247545

TITLE: Coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatological and cosmetic *compositions* containing the extract

INVENTOR(S): Navarro, Roger

PATENT ASSIGNEE(S): Pierre Fabre Dermo-Cosmetique, Fr.

SOURCE: PCT Int. Appl., 16 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9840447	A1	19980917	WO 1998-FR488	19980311
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2760637	A1	19980918	FR 1997-2835	19970311
FR 2760637	B1	19990528		

CA 2284871 AA 19980917 CA 1998-2284871 19980311  
 EP 564901 A1 19991222 EP 1998-213885 19980311  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI

US 6319392 B1 20011120 US 1999-380958 19990910  
 US 2001054574 A1 20011227 US 2001-916560 20010727

PRIORITY APPLN. INFO.:

FR 1997-2835 A 19970311  
 WO 1998-FR488 W 19980311  
 US 1999-380958 A1 19990910

- AB An extract of coal tar, especially for use in dermatol. and cosmetic formulations, was obtained by two distillation operations in series, one of them in a thin-film evaporator and the other in a distillation column. The coal tar extract has a polycyclic aromatic hydrocarbon content on the order of tens of ppm (ppm) and a maximum content of benzo[a]pyrene on the order of a few ppm. Thin film evaporation is carried out at 5-7 ppm and 198-200°, with a feed rate of crude coal tar of 18-19 kg/h. Formulations containing 1-5 weight% coal tar extract were prepared for shampoo, body lotion, hand cream, body oil, syndets (detergents), mousse, emollients, and body gels.
- IC ICM C10C001-04  
 ICS C10C001-08; A61K007-48; A61K035-04
- CC 51-19 (Fossil Fuels, Derivatives, and Related Products)  
 Section cross-reference(s): 46, 63
- IT Glycols, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (C14; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Glycerides, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (C8-9; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Amides, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (N-(hydroxyalkyl); dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Betaines  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (amidoalkyl; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Polycyclic compounds  
 RL: REM (Removal or disposal); PROC (Process)  
 (aromatic hydrocarbons, removal of; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Cosmetics  
**Detergents**  
 Shampoos  
 (coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Coal tar  
 RL: BUU (Biological use, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)

- IT: Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (coco, ethoxylated; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Jojoba oil  
 Lanolin  
 Paraffin waxes, biological studies  
 Petrolatum  
 Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Cosmetics  
 (emollients; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Cosmetics  
 (gels; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Cosmetics  
 (hand creams; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Clays, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hectoritic, C18-quaternized; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Tallow  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hydrogenated, ethoxylated; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Collagens, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (hydrolyzates, N-coco acyl, sodium salts; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (lanolin, esters with sorbitan, ethoxylated; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Cosmetics  
 (lotions; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)
- IT Polyoxyalkylenes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (mono-alkylphenyl ethers; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)
- IT Cosmetics  
 (mousses; coal-tar extract with reduced polycyclic aromatic hydrocarbons

and

dermatol. and cosmetic *compns.* containing the extract)

IT Cosmetics

(oily, body oils; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)

IT Tar

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(pine; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)

IT Aromatic hydrocarbons, processes

RL: REM (Removal or disposal); PROC (Process)

(polycyclic, removal of; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)IT Juniper (*Juniperus oxycedrus*)(tar; dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)

IT 57-09-0, 1-Hexadecanaminium, N,N,N-trimethyl-, bromide 57-55-6, Propylene glycol, biological studies 65-85-0, Benzoic acid, biological studies 69-72-7, Salicylic acid, biological studies 104-74-5, Lauryl pyridinium chloride 105-99-7, Dibutyl adipate 121-79-9, Propyl gallate 139-33-3, Disodium EDTA 151-21-3, Sodium lauryl sulfate, biological studies 1314-13-2, Zinc oxide (ZnO), biological studies 1562-00-1, Sodium isethionate 5466-77-3, 2-Ethylhexyl p-methoxycinnamate 7664-93-9D, Sulfuric acid, monoalkyl esters, ethoxylated, sodium salts, biological studies 9000-30-0, Guar gum 9005-08-7, Polyethylene glycol distearate 9005-25-8, Starch, biological studies 9005-64-5 12441-09-7D, Sorbitan, derivs. 25322-68-3D, Polyethylene glycol, mono-alkylphenyl ethers 25609-89-6, Crotonic acid-vinyl acetate copolymer 29454-16-8, Butanedioic acid, sulfo-, monosodium salt 32440-50-9, Vinylpyrrolidone-1-hexadecene copolymer 36653-82-4, Cetyl alcohol 42131-42-0, Poly(oxy-1,2-ethanediyl), . $\alpha$ -(1-oxooctyl)-. $\omega$ -hydroxy- 57171-56-9

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)

IT 56-55-3, Benz[a]anthracene

RL: REM (Removal or disposal); PROC (Process)

(removal of; coal-tar extract with reduced polycyclic aromatic hydrocarbons and dermatol. and cosmetic *compns.* containing the extract)

IT 57-09-0, 1-Hexadecanaminium, N,N,N-trimethyl-, bromide

36653-82-4, Cetyl alcohol

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(dermatol. and cosmetic *compns.* containing coal-tar extract with reduced polycyclic aromatic hydrocarbons content)

RN 57-09-0 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

Me<sub>3</sub><sup>+</sup>N—(CH<sub>2</sub>)<sub>15</sub>—Me● Br<sup>-</sup>

RN 36653-82-4 HCAPLUS  
CN 1-Hexadecanol (9CI) (CA INDEX NAME)

HO—(CH<sub>2</sub>)<sub>15</sub>—Me

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 40 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1998:175794 HCAPLUS Full-text  
DOCUMENT NUMBER: 128:193995  
TITLE: Liquid laundry detergent *composition*  
INVENTOR(S): Fujino, Tetsuya; Goto, Yumi; Fukugaki, Takenori;  
Nakamura, Yoshiaki; Murakami, Yuji  
PATENT ASSIGNEE(S): Sunstar Inc., Japan  
SOURCE: Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 826767	A1	19980304	EP 1997-112286	19970717
EP 826767	B1	20030305		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 10088195	A2	19980407	JP 1997-194463	19970718
JP 3556806	B2	20040825		
US 5916864	A	19990629	US 1997-897636	19970721
TW 500801	B	20020901	TW 1997-86110305	19970721
PRIORITY APPLN. INFO.:			JP 1996-214268	A 19960724
			JP 1996-214269	A 19960724

OTHER SOURCE(S): MARPAT 128:193995

AB A title *composition*, especially useful for soak washing of stubborn oil stains, comprises (A) a nonionic surfactant R10(CH<sub>2</sub>CH<sub>2</sub>O)nH [R1 = C10-22 alk(en)yl, C6-12 alkylphenyl; n = 5-15] (B) ≥1 cationic surfactant R2R3R4R5N+X- [2 of R2-R5 = C12-24 alk(en)yl, the other 2 are Me, Et, polyoxyethylene or polyoxypropylene chain] having a whole iodine value of 40-100, (C) ≥1 sparingly H<sub>2</sub>O-soluble solvent selected from alc. R6OH (R6 = C6-12 alkyl; C5-12 alkylphenyl) or R7(OR8)mOH [R7 = C5-12 alkyl(phenyl); R8 = C2-5 alkylene; m = 1-3], and (D) ≥1 easily H<sub>2</sub>O-soluble solvent R9OH (R9 = C1-5 alkyl) and a solvent R10(OR11)lOH [R10 = H, C1-4 alkyl(ene), Ph, PhCH<sub>2</sub>; R11 = C2-5 alkylene; l = 1-3]. A typical *composition* contained diethylene glycol mono(2-ethylhexyl) ether 10.00, dioleyldimethylammonium chloride 8.00, ethoxylated (9 EO) C12-15 alcs. 50.00, 3-methyl-3-methoxybutanol 10.00, coconut oil fatty acid amidopropyldimethyl aminoacetic betaine 0.20% and H<sub>2</sub>O balance to 100%.

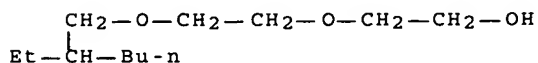
IC ICM C11D001-835

ICS C11D003-43; C11D001-94; C11D003-20

CC 46-5 (Surface Active Agents and Detergents)

ST laundry liq detergent soak washing; oil stain removal liq detergent

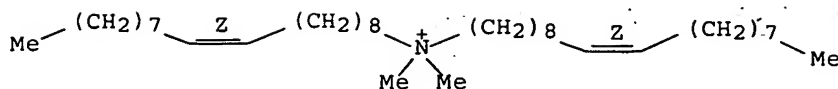
- compn*; diethylene glycol ethylhexyl ether; liq detergent;  
 oleyldimethylammonium chloride laundry liq detergent; methylmethoxybutanol  
 solvent laundry liq detergent
- IT Betaines  
 RL: MOA (Modifier or additive use); USES (Uses)  
 ((coco amidopropyl)dimethyl, carboxymethyl-; liquid laundry detergent  
*composition* containing)
- IT Polyoxyalkylenes, *uses*  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (C12-15 alkyl ethers, surfactants; liquid laundry detergent *compn*  
 . containing)
- IT Surfactants  
 (cationic; liquid laundry detergent *composition* containing)
- IT Detergents  
 (laundry, liquid; liquid laundry detergent *composition*)
- IT Surfactants  
 (nonionic; liquid laundry detergent *composition* containing)
- IT 64-17-5, Ethanol, *uses* 107-21-1, Ethylene glycol, *uses* 107-43-7D,  
 Betaine, cocoamidopropyl dimethylaminoacetic 994-36-5, Sodium citrate  
 7757-82-6, Sodium sulfate, *uses*  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (liquid laundry detergent *composition* containing)
- IT 56539-66-3, 3-Methyl-3-methoxybutanol  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (liquid laundry detergent *composition* containing)
- IT 112-59-4, Diethylene glycol monohexyl ether 1559-36-0,  
 Diethylene glycol mono(2-ethylhexyl) ether 25917-35-5, Hexanol  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (solvent; liquid laundry detergent *composition* containing)
- IT 7212-69-3, Dioleyldimethylammonium chloride  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (surfactant; liquid laundry detergent *composition* containing)
- IT 25322-68-3D, Polyethylene glycol, C12-15 alkyl ethers  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (surfactants; liquid laundry detergent *composition* containing)
- IT 1559-36-0, Diethylene glycol mono(2-ethylhexyl) ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (solvent; liquid laundry detergent *composition* containing)
- RN 1559-36-0 HCAPLUS
- CN Ethanol, 2-[2-[(2-ethylhexyl)oxy]ethoxy]- (7CI, 8CI, 9CI) (CA INDEX NAME)



- IT 7212-69-3, Dioleyldimethylammonium chloride  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (surfactant; liquid laundry detergent *composition* containing)
- RN 7212-69-3 HCAPLUS
- CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride, (9Z)-  
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.





● Cl -

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L65 ANSWER 41 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:143551 HCAPLUS Full-text

DOCUMENT NUMBER: 128:231884

TITLE: Liquid laundry detergent *compositions* with improved storage stability, cleaning power and fabric-softening properties

INVENTOR(S): Maruta, Issei; Metori, Masaki; Saeki, Takaya; Takagi, Masato

PATENT ASSIGNEE(S): Kao Corp., Japan; Nippon Shokubai Kagaku Kogyo Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho; 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10060476	A2	19980303	JP 1996-222527	19960823
JP 3398286	B2	20030421		
TW 438884	B	20010607	TW 1997-86111430	19970809
CN 1178827	A	19980415	CN 1997-118595	19970823
CN 1098922	B	20030115		
CN 1178828	A	19980415	CN 1997-118670	19970823
CN 1093879	B	20021106		

PRIORITY APPLN. INFO.: JP 1996-222527 A 19960823

AB The *compsns.* contain (A) 10-60% surfactants other than cationic surfactants, (B) 0.1-10% cationic surfactants, and (C) 0.1-15% polyethers grafted with ethylenically monounsaturated monomers containing mainly acrylic acid and/or methacrylic acid. Emulgen 120 40.0, Na C10-14-linear-alkylbenzenesulfonate 5.0, Lunac L-55 (fatty acid) 2.0, Quartamin 86W (cationic surfactant) 4.0, graft polymer (prepared by grafting acrylic acid and maleic acid onto phenoxyethylene glycol) 3.0, monoethanolamine 3.0, EtOH 4.0, Na2SO3 0.1, perfume, and H2O to make 100% were mixed to give a detergent showing no phase separation on keeping the *composition* for 10 days at 5° or 50° and exhibiting resoiling prevention amount 92% as determined by a specified test.

IC ICM C11D001-65

ICS C08L051-08; C11D001-835; C11D001-86; C11D003-37; C11D010-02; C11D001-68; C11D001-72; C11D001-722; C11D001-22; C11D001-14; C11D001-16; C11D001-12; C11D001-04; C11D001-62; C11D001-40

CC 46-5 (Surface Active Agents and Detergents)

IT Polyethers, uses

*Polyoxyalkylenes, uses*

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or

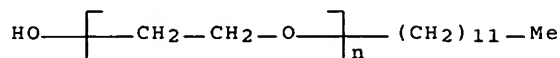
- engineered material use); PREP (Preparation); USES (Uses)  
 (acrylic, graft; liquid laundry detergents containing quaternary ammonium surfactants and polyethers grafted with (meth)acrylates)
- IT **Polyoxyalkylenes, uses**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (alkyl ethers, sulfates, sodium salts; liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Polyoxyalkylenes, uses**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (alkyl ethers; liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Surfactants**  
 (anionic; liquid laundry **detergents** containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Surfactants**  
 (cationic; liquid laundry **detergents** containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Polyoxyalkylenes, uses**  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (ethers with C12-14-secondary alcs.; liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Detergents**  
 (laundry, liquid; liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT **Surfactants**  
 (nonionic; liquid laundry **detergents** containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT 98-11-3D, Benzenesulfonic acid, C10-14-alkyl derivs., sodium salts, uses 112-03-8, Quartamin 86W 9002-92-0, Emulgen 120 25322-68-3D, alkyl ethers 25322-68-3D, alkyl ethers, sulfates, sodium salts 25322-68-3D, ethers with C12-14-secondary alcs. 204529-10-2, Nonidet R 9  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- IT 112-03-8, Quartamin 86W 9002-92-0, Emulgen 120  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (liquid laundry detergents containing nonionic surfactants, cationic surfactants and polyethers grafted with (meth)acrylates with good storage stability)
- RN 112-03-8 HCAPLUS
- CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N<sup>+</sup>-(CH<sub>2</sub>)<sub>17</sub>-Me

● Cl<sup>-</sup>

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
INDEX NAME)



L65 ANSWER 42 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:102779 HCAPLUS Full-text

DOCUMENT NUMBER: 128:181870

TITLE: Thick liquid washing agent *composition*  
containing mainly polyalkylene glycol nonionic  
surfactant

INVENTOR(S): Amano, Hideo; Iihara, Tadashi; Nishida, Nobuo; Okano,  
Tomomichi

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10036897	A2	19980210	JP 1996-213126	19960724
PRIORITY APPLN. INFO.:			JP 1996-213126	19960724

AB The *composition* comprises a polyalkylene glycol nonionic surfactant 10-85, an isotropic substance of semipolar, ampholytic and/or cationic surfactant 5-45 and a solid plant extract (fruits, bark, flower, seed) 0.001-5%. Thus, a *composition* was prepared from C12H25O(C2H4O)15H 36, dodecyldimethylamine oxide 18 and extract of oak fruit and bark 0.3% and balance water.

IC ICM C11D010-02

ICS A61K007-075; A61K007-50; C11D010-02; C11D001-72; C11D003-382;  
C11D003-30

CC 46-6 (Surface Active Agents and Detergents)

IT Surfactants

(amphoteric; thick liquid washing agent *composition* containing mainly  
polyalkylene glycol nonionic surfactant)

IT Surfactants

(cationic; thick liquid washing agent *composition* containing mainly  
polyalkylene glycol nonionic surfactant)

IT Oak (Quercus)

(extract of bark and fruit; thick liquid washing agent *composition*  
containing mainly polyalkylene glycol nonionic surfactant)

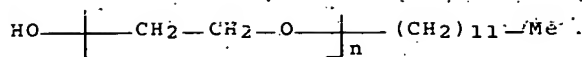
IT Birch (Betula papyrifera)

- (extract of bark; seed and fruit; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT Cherry  
(extract of bark; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT Ginkgo  
(extract of leaf; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT Linden (Tilia miqueliana)  
(extract of leave and flower; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT Materials  
(isotropic substances; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT Surfactants  
(nonionic; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT **Detergents**  
(thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT 104-73-4, Dodecyl pyridinium bromide 1643-20-5, Dodecyldimethylamine oxide 10108-87-9, Decyl trimethylammonium chloride 193695-21-5  
RL: TEM (Technical or engineered material use); USES (Uses)  
(isotropical substances; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT 9002-92-0 26183-52-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(nonionic surfactants; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- IT 10108-87-9, Decyl trimethylammonium chloride  
RL: TEM (Technical or engineered material use); USES (Uses)  
(isotropical substances; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- RN 10108-87-9 HCAPLUS
- CN 1-Decanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

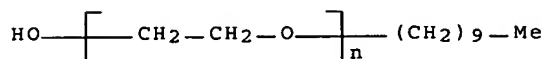
Me<sub>3</sub><sup>+</sup>N—(CH<sub>2</sub>)<sub>9</sub>—Me

● Cl<sup>-</sup>

- IT 9002-92-0 26183-52-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(nonionic surfactants; thick liquid washing agent *composition* containing mainly polyalkylene glycol nonionic surfactant)
- RN 9002-92-0 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 26183-52-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -decyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

L65 ANSWER 43 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:31226 HCAPLUS Full-text

DOCUMENT NUMBER: 128:103630

TITLE: Concentrated cleaning *compositions* having good fluidity and detergency

INVENTOR(S): Amano, Hideo; Iihara, Tadashi; Nishida, Shigeo; Okano, Tomomichi

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10001695	A2	19980106	JP 1996-211912	19960723
PRIORITY APPLN. INFO.:			JP 1996-118283	A 19960416

AB The title *compsns.* have a net surfactant content up to 40-90% and comprise (A) 10-85% polyalkylene glycol-type nonionic surfactants, (B) 5-45% semipolar surfactants, amphoteric surfactants or cationic surfactants provided that these surfactants have the ability to impart the isotropicity to the A, and (C) 0.01-3% mono- or/and sesquiterpenoid hydrocarbons. The B component is essential for preventing the concentrated mixture from thickening and coagulation. Thus, a cleaning concentrate was obtained from polyethylene glycol monolauryl ether 36, lauryldimethylamine oxide 18,  $\alpha$ -pinene 0.3 and water 46 parts.

IC ICM C11D001-72  
ICS A61K007-075; A61K007-50; C11D003-18

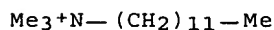
CC 46-5 (Surface Active Agents and Detergents)

IT Surfactants  
(amphoteric; concentrated cleaning *compsns.* having good fluidity and detergency)

IT Essential oils  
RL: MOA (Modifier or additive use); USES (Uses)  
(cananga; concentrated cleaning *compsns.* having good fluidity and detergency)

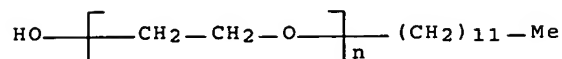
IT Surfactants  
(cationic; concentrated cleaning *compsns.* having good fluidity and detergency)

- IT Essential oils  
RL: MOA (Modifier or additive use); USES (Uses)  
(cedarwood; concentrated cleaning *compns.* having good fluidity and detergency)
- IT Monoterpenes  
Sesquiterpenes  
RL: MOA (Modifier or additive use); USES (Uses)  
(concentrated cleaning *compns.* having good fluidity and detergency)
- IT **Detergents**  
(liquid; concentrated cleaning *compns.* having good fluidity and detergency)
- IT **Polyoxyalkylenes, uses**  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(mono(alkyl group)-terminated, nonionic surfactants; concentrated cleaning *compns.* having good fluidity and detergency)
- IT Essential oils  
RL: MOA (Modifier or additive use); USES (Uses)  
(orange, sweet; concentrated cleaning *compns.* having good fluidity and detergency)
- IT 80-56-8,  $\alpha$ -Pinene 5989-27-5, D-Limonene  
RL: MOA (Modifier or additive use); USES (Uses)  
(concentrated cleaning *compns.* having good fluidity and detergency)
- IT 104-73-4, Dodecylpyridinium bromide 112-00-5,  
Dodecyltrimethylammonium chloride 112-18-5, Lauryldimethylamine  
4292-10-8, Lauramidopropylbetaine  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(concentrated cleaning *compns.* having good fluidity and detergency)
- IT 9002-92-0, Polyethylene glycol monolauryl ether 9064-14-6  
, Polypropylene glycol monododecyl ether 26183-52-8,  
Polyethylene glycol monodecyl ether  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(nonionic surfactants; concentrated cleaning *compns.* having good fluidity and detergency)
- IT 112-00-5, Dodecyltrimethylammonium chloride  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(concentrated cleaning *compns.* having good fluidity and detergency)
- RN 112-00-5 HCAPLUS
- CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

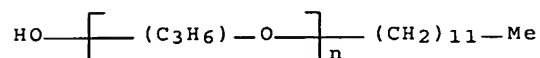


- IT 9002-92-0, Polyethylene glycol monolauryl ether 9064-14-6  
, Polypropylene glycol monododecyl ether 26183-52-8,  
Polyethylene glycol monodecyl ether  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(nonionic surfactants; concentrated cleaning *compns.* having good fluidity and detergency)

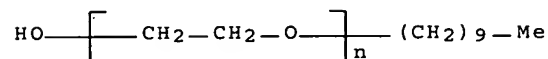
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

RN 9064-14-6 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

RN 26183-52-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -decyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)

L65 ANSWER 44 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:28420 HCAPLUS Full-text

DOCUMENT NUMBER: 128:129527

TITLE: Highly concentrated liquid detergent  
*compositions* with good flowability, mildness,  
and detergencyINVENTOR(S): Amano, Hideo; Iihara, Tadashi; Nishida, Masao; Okano,  
Tomomichi

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10001694	A2	19980106	JP 1996-211910	19960723
PRIORITY APPLN. INFO.:			JP 1996-117079	A 19960415

AB The *comps.* with surfactant content 40-90% comprise (A) nonionic surfactants of polyalkylene glycols 10-85, (B) semipolar, amphoteric, or cationic surfactants to impart (A) isotropy 5-45, and (C) water-soluble polymeric compds. 0.1-20%. A *composition* contained polyoxyethylene dodecyl ether 33, polyethylene glycol with mol. weight 1000 5, dodecyldimethylamine oxide 17,

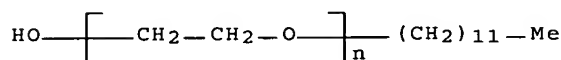
and water. 45% and exhibited optical isotropy, good flowability and temperature stability.

- IC ICM C11D001-72  
ICS A61K007-075; A61K007-50; C11D001-62; C11D001-75; C11D001-90; C11D003-37; C11D010-02; C11D017-08
- CC 46-6 (Surface Active Agents and Detergents)
- IT Surfactants  
(amphoteric; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT Surfactants  
(cationic; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT **Polyoxyalkylenes, uses**  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT **Detergents**  
(liquid; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT Polymers, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(water-soluble; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT 9004-32-4, CMC sodium salt  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(HPC-MFP; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT 104-73-4, Dodecylpyridinium bromide 10108-87-9, Decyltrimethylammonium chloride  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT 9000-07-1, Carrageenan 9002-92-0, Polyoxyethylene dodecyl ether 9003-04-7, Rheogic 250H 9087-32-5 11138-66-2, Xanthan gum 25322-68-3, Polyethylene glycol 25322-69-4, Polypropylene glycol 26183-52-8, Polyoxyethylene decyl ether 37311-00-5, Ethylene oxide-propylene oxide copolymer dodecyl ether 50586-59-9  
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
(highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT 1643-20-5, Dodecyldimethylamine oxide  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(isotropic agent; highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- IT 10108-87-9, Decyltrimethylammonium chloride  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(highly concentrated liquid detergent *compns.* with good flowability, mildness, and detergency)
- RN 10108-87-9 HCAPLUS
- CN 1-Decanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

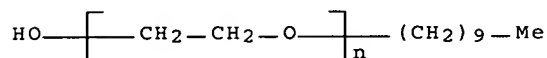


Me<sub>3</sub>N<sup>+</sup>-(CH<sub>2</sub>)<sub>9</sub>-Me● Cl<sup>-</sup>

IT 9002-92-0, Polyoxyethylene dodecyl ether 26183-52-8,  
 Polyoxyethylene decyl ether  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material  
 use); USES (Uses)  
 (highly concentrated liquid detergent *compns.* with good flowability,  
 mildness, and detergency)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



RN 26183-52-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-decyl-ω-hydroxy- (9CI) (CA INDEX  
 NAME)



L65 ANSWER 45 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:798028 HCAPLUS Full-text  
 DOCUMENT NUMBER: 128:90373  
 TITLE: Polyalkylene glycol nonionic surfactant-based thick  
 liquid washing *composition*  
 INVENTOR(S): Amano, Hideo; Iihara, Tadashi; Nishida, Masao; Okano,  
 Tomomichi  
 PATENT ASSIGNEE(S): Lion Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09316488	A2	19971209	JP 1996-211909	19960723
PRIORITY APPLN. INFO.:			JP 1996-99146	A 19960328
OTHER SOURCE(S):	MARPAT 128:90373			

AB The *composition*, having good flowability, high d. isotropic properties, and  
 good cleaning properties, comprises a mixture of a polyalkylene glycol

nonionic surfactant 10-85, an isotropic substance, semigolar surfactant, ampholytic surfactant and/or cationic surfactant 3-45 and an anionic surfactant 1-25%. Thus, a *composition* was prepared from a mixture of C10H21O(C2H4O)5H 30, dodecyldimethylamine oxide 15, C12H25O(C2H4O)5SO3Na 15 and water 40%.

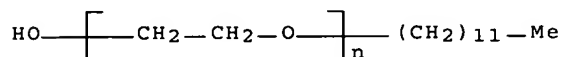
- IC ICM C11D001-94  
ICS A61K007-075; A61K007-50; C11D001-94; C11D001-72; C11D001-78; C11D001-75; C11D001-90; C11D001-58; C11D001-62; C11D001-12; C11D001-04
- CC 46-6 (Surface Active Agents and Detergents)
- ST nonionic anionic surfactant liq washing *compn*; isotropic substance ampholytic surfactant washing *compn*; polyalkylene glycol surfactant washing *compn*; alkenyl sulfate salt surfactant washing *compn*; dodecyldimethylamine oxide surfactant washing *compn*
- IT Sulfonates  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkanesulfonates, benzene derivs, sodium salts, anionic surfactants; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Surfactants  
(amphoteric; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Surfactants  
(anionic; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Surfactants  
(cationic; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Materials  
(isotropic substances; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Surfactants  
(nonionic; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT *Detergents*  
(polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Carboxylic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(salts; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT *Polyoxyalkylenes, uses*  
RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT Alkenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
( $\alpha$ -, sodium sulfonate derivs., anionic surfactants; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT 9004-82-4 21539-58-2 185010-82-6 201019-16-1 201019-17-2  
201019-18-3 201019-19-4  
RL: TEM (Technical or engineered material use); USES (Uses)  
(anionic surfactants; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)
- IT 104-73-4, N-Dodecylpyridinium bromide 1643-20-5, Dodecyldimethylamine oxide 10108-87-9, Decyltrimethylammonium chloride 154992-35-5  
RL: TEM (Technical or engineered material use); USES (Uses)  
(isotropic substances; polyalkylene glycol nonionic surfactant-based thick liquid washing *composition*)

IT 9002-92-0 26183-52-8 37311-00-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (nonionic surfactants; polyalkylene glycol nonionic surfactant-based  
 thick liquid washing composition)  
 IT 10108-87-9, Decyltrimethylammonium chloride  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (isotropic substances; polyalkylene glycol nonionic surfactant-based  
 thick liquid washing composition)  
 RN 10108-87-9 HCAPLUS  
 CN 1-Decanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

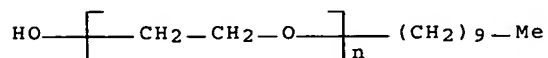
Me<sub>3</sub>N<sup>+</sup>—(CH<sub>2</sub>)<sub>9</sub>—Me

● Cl<sup>-</sup>

IT 9002-92-0 26183-52-8  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (nonionic surfactants; polyalkylene glycol nonionic surfactant-based  
 thick liquid washing composition)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



RN 26183-52-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-decyl-ω-hydroxy- (9CI) (CA INDEX  
 NAME)



L65 ANSWER 46 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:679152 HCAPLUS Full-text  
 DOCUMENT NUMBER: 127:347957  
 TITLE: Acidic cleaning formulation containing a hydrolyzed  
 silane and method of applying the same  
 INVENTOR(S): Neumiller, Philip J.  
 PATENT ASSIGNEE(S): S.C. Johnson & Son, Inc., USA  
 SOURCE: PCT Int. Appl., 49 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736980	A1	19971009	WO 1997-US5191	19970331
W: BR, CA, JP, MX				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 2003109395	A1	20030612	US 1996-626402	19960402
US 6740626	B2	20040525		

PRIORITY APPLN. INFO.: US 1996-626402 A 19960402

OTHER SOURCE(S): MARPAT 127:347957

- AB An acidic cleaning formulation containing a surface modification agent selected from a group consisting of a hydrolyzed trialkoxy silane or a hydrolyzable quaternary ammonium silane, a surfactant, an alc., and water is disclosed. The cleaning formulation is stable, provides excellent cleaning efficacy and deposits a silane coating on the surfaces to which it is applied to leave a protective coating thereon that inhibits deposition of soils and grease. The hydrolyzed trialkoxysilane is formed in an aqueous emulsion in the presence of 5-100% emulsifier different than the surfactant in the cleaner based on the amount of hydrolyzable trialkoxysilane. The tendency of the formulation to repel itself after application to the hard surface is decreased by addition of a siloxane. Also, disclosed is a method for applying the cleaning formulation to hard surfaces covered by water.
- IC ICM C11D003-16  
ICS C11D003-43
- CC 46-6 (Surface Active Agents and Detergents)
- ST acidic cleaning *compn* hydrolyzed alkoxysilane; siloxane acidic cleaning *compn*; hydrolyzable quaternary ammonium silane cleaning *compn*; greaseproofing hard surface acidic cleaning *compn*; soilproofing hard surface acidic cleaning *compn*; alc acidic cleaning *compn* hard surface
- IT **Detergents**  
Soilproofing agents  
(acidic cleaning formulation containing a hydrolyzed trialkoxysilanes or hydrolyzable quaternary ammonium silanes for soil- and greaseproofing hard surfaces)
- IT **Polyoxyalkylenes, uses**  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(ethers; acidic cleaning formulation containing a hydrolyzed trialkoxysilanes or hydrolyzable quaternary ammonium silanes for soil- and greaseproofing hard surfaces)
- IT 50-21-5, uses 56-81-5, 1,2,3-Propanetriol, uses 57-55-6, 1,2-Propanediol, uses 64-17-5, Ethanol, uses 64-19-7, Acetic acid, uses 64-19-7D, Acetic acid, amphoteric coco salts, uses 67-63-0, Isopropanol, uses 77-92-9, uses 79-14-1, Glycolic acid, uses 111-46-6, uses 111-76-2, Dowanol EB 112-34-5, Dowanol DB 137-40-6D, Sodium propionate, amphoteric coco derivs. 526-95-4, Gluconic acid 2571-88-2, Barlox 18S 2605-79-0, Barlox 10S 5329-14-6, Sulfamic acid 6032-29-7, 2-Pentanol 7128-91-8, Barlox 16S 25322-68-3D, ethers 28299-33-4D, Imidazoline, short chain derivative 29387-86-8, Dowanol PnB 30136-13-1, Dowanol PnP 30899-19-5, Pentanol 34398-01-1, Neodol 1-7 34590-94-8, Dowanol DPM 35884-42-5, Dowanol DPnB 37231-36-0, Miranol J2M Concentrate 41593-38-8, Dowanol PPh 62309-51-7, Propanol 65931-48-8, Lonzaine CS 67298-08-2D, coco amide derivs. 75634-56-9, Lonzaine CO 79176-82-2, Amphotergerge K-2 82028-73-7, Amphotergerge KJ-2 82497-11-8, Lonzaine C 86438-78-0, Mirataine BB 98227-97-5, Mirataine CBS 106392-12-5, Pluronic L-44 107991-07-1, Rewoteric AMKSF 130124-28-6, Rewoteric AMV 143180-18-1, Phosphoteric T-C6 157321-76-1, Rewoteric AMCAS 163662-60-0, Rewoteric AmKSF-40

154168-71-8, Berol 223 170137-06-1, Mirataine ASC 174722-03-3.  
 Amphoterge K 186359-90-0, Neodox 25-6 197632-44-3, Dowanol DEM-Dowanol  
 PnB-Dowanol PnP mixture 197664-69-0, Zonyl FS 300 197730-77-1, Rewoteric  
 AM-CAS 15U 197730-78-2, Rewoteric AM 2L40 197730-79-3, Amphoterge L  
 Special 197730-80-6, Amphoterge W 197730-83-9, Barlox LF  
 197730-88-4, DP-SC 5298-49 197730-89-5, DP-SC 5298-53 197730-96-4,  
 Lonzaine JS

RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)

(acidic cleaning formulation containing a hydrolyzed trialkoxysilanes or  
 hydrolyzable quaternary ammonium silanes for soil- and greaseproofing  
 hard surfaces)

IT 52132-54-4

RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)

(silane emulsifier; acidic cleaning formulation containing a hydrolyzed  
 trialkoxysilanes or hydrolyzable quaternary ammonium silanes for soil-  
 and greaseproofing hard surfaces)

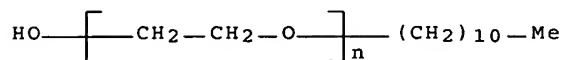
IT 34398-01-1, Neodol 1-7

RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)

(acidic cleaning formulation containing a hydrolyzed trialkoxysilanes or  
 hydrolyzable quaternary ammonium silanes for soil- and greaseproofing  
 hard surfaces)

RN 34398-01-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -undecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)



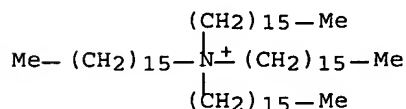
IT 52132-54-4

RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)

(silane emulsifier; acidic cleaning formulation containing a hydrolyzed  
 trialkoxysilanes or hydrolyzable quaternary ammonium silanes for soil-  
 and greaseproofing hard surfaces)

RN 52132-54-4 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trihexadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

DOCUMENT NUMBER: 127:333128  
 TITLE: Laundry detergent compositions showing fabric-softening effects without yellowing of fabrics  
 INVENTOR(S): Tamura, Masaru; Ono, Masako; Watanabe, Toshiyuki  
 PATENT ASSIGNEE(S): Lion Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09255988	A2	19970930	JP 1996-93643	19960322
PRIORITY APPLN. INFO.:			JP 1996-93643	19960322
OTHER SOURCE(S):		MARPAT 127:333128		

AB The title *compns.* comprise (A) 0.5-10% anionic surfactants [average addition mol. number of ethylene oxide (I) 6-12] selected from ethoxylated C8-20 linear alkyl or alkenyl primary alcs., ethoxylated C8-22 branched alkyl or alkenyl primary alcs. (having C $\leq$ 5 alkyl branch), ethoxylated C8-22 fatty acids, ethoxylated C8-22 fatty acid esters, and ethoxylated C6-12 alkylphenols, (B) 0.5-10% SO<sub>3</sub><sup>-</sup> or SO<sub>4</sub><sup>-</sup>-containing anionic surfactants, and (C) 0.5-10% cationic surfactants R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>N<sup>+</sup> X<sup>-</sup> [R<sub>1</sub> = C6-24 alkyl, alkenyl, or  $\beta$ -hydroxyalkyl, C8-25 alkyl or alkenyl including groups having ester, amido, or ether bond; R<sub>2</sub> = C1-3 (hydroxy)alkyl; X = halo, C1-3 monoalkyl sulfate] at B:C ratio 1:(1.05-1.65). Thus, a detergent comprising ethoxylated lauryl alc. (average addition mol. number of I 6) 20, Na C12 linear alkylbenzenesulfonate 2.2, C18 alkyltrimethylammonium chloride 2.8, a emulsifier 0.3, Na toluenesulfonate 2.0, EtOH 5.0, a perfume 0.1, and H<sub>2</sub>O to 100% showed good fabric-softening effect without yellowing of fabrics.

IC ICM C11D001-86

ICS C11D017-08; C11D001-86; C11D001-72; C11D001-14; C11D001-24;  
 C11D001-28; C11D001-29; C11D001-62

CC 46-5 (Surface Active Agents and Detergents)

IT Quaternary ammonium compounds, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (C18-alkyltrimethyl, chlorides, surfactants; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Phenols, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl, ethoxylated; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Surfactants

(anionic; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Surfactants

(cationic, quaternary ammonium compds.; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Polyoxyalkylenes, uses

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (ethers, nonionic surfactant; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Fatty acids, uses

Fatty acids; uses

RL: TEM (Technical or engineered material use); USES (Uses)

(ethoxylated; fabric-softening laundry detergent *compns.*

containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Softening agents

(fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)IT *Detergents*(laundry; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Surfactants

(nonionic, ethylene oxide addition compds.; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT Yellowing prevention

Yellowing prevention

(of fabrics; fabric-softening laundry detergent *compns.* containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT 98-11-3D, Benzenesulfonic acid, C12 linear alkyl derivs., sodium salts, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(anionic surfactants; fabric-softening laundry detergent *compns.*

. containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT 51277-96-4

RL: TEM (Technical or engineered material use); USES (Uses)

(cationic surfactant; fabric-softening laundry detergent *compns.*

. containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT 9002-92-0P, Polyoxyethylene lauryl ether 24938-91-8P,

Polyoxyethylene tridecyl ether 25322-68-3DP, ethers

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(nonionic surfactant; fabric-softening laundry detergent *compns.*

. containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

IT 51277-96-4

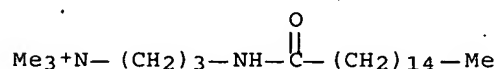
RL: TEM (Technical or engineered material use); USES (Uses)

(cationic surfactant; fabric-softening laundry detergent *compns.*

. containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

RN 51277-96-4 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxohexadecyl)amino]-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

IT 9002-92-0P, Polyoxyethylene lauryl ether 24938-91-8P,

polyoxyethylene tridecyl ether

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

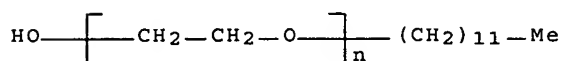
(nonionic surfactant; fabric-softening laundry detergent *compos*

. containing ethylene oxide addition compds., alkylbenzenesulfonates, and quaternary ammonium compds.)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA

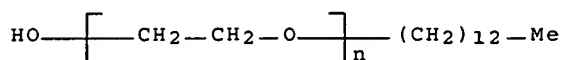
INDEX NAME)



RN 24938-91-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA

INDEX NAME)



L65 ANSWER 48 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:571473 HCAPLUS Full-text

DOCUMENT NUMBER: 127:163481

TITLE: Concentrated liquid cleaning *compositions* containing polyalkylene glycol-type nonionic surfactants

INVENTOR(S): Okano, Tomomichi; Egawa, Naoyuki; Fujiwara, Masami; Iihara, Tei; Amano, Hideo; Nishida, Masao

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09176683	A2	19970708	JP 1995-350975	19951225
PRIORITY APPLN. INFO.:			JP 1995-350975	19951225

AB A concentrated cleaning *composition* with water content <50 weight% and good flowability comprises a polyalkylene glycol-type nonionic surfactant (A) and an agent (B) which has mol. interaction parameter  $\beta$  -1.0 to 1.0 and causes the highly associated structure of the nonionic surfactant to become optically isotropic. The agent (B) is a compound having C8-14 alkyl group and N-containing polar group in the mol. An isotropic cleaning *composition* comprised polyethylene glycol monolauryl ether 40, dimethyloctylamine oxide 20, and water 40 parts and had  $\beta$  -0.3.

IC ICM C11D001-72

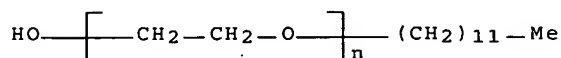


CC 46-6 (Surface Active Agents and Detergents)  
 ST cleaning *compn* concd isotropic polyalkylene glycol; surfactant  
 polyalkylene glycol ether isotropic detergent  
 IT **Detergents**  
 (concentrated liquid cleaning *compns.* containing polyalkylene glycol-type  
 nonionic surfactants)  
 IT **Polyoxyalkylenes, uses**  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (ethers; concentrated liquid cleaning *compns.* containing polyalkylene  
 glycol-type nonionic surfactants)  
 IT Surfactants  
 (nonionic; concentrated liquid cleaning *compns.* containing polyalkylene  
 glycol-type nonionic surfactants)  
 IT 104-73-4, Dodecylpyridinium bromide 1643-20-5, Dimethyldodecylamine  
 oxide 2605-78-9, Dimethyloctylamine oxide 10108-87-9,  
 Decyltrimethylammonium chloride 193695-21-5  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (concentrated liquid cleaning *compns.* containing polyalkylene glycol-type  
 nonionic surfactants)  
 IT 9002-92-0, Polyethylene glycol monolauryl ether 37311-00-5,  
 Ethylene oxide-propylene oxide copolymer lauryl monoether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (concentrated liquid cleaning *compns.* containing polyalkylene glycol-type  
 nonionic surfactants)  
 IT 10108-87-9, Decyltrimethylammonium chloride  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (concentrated liquid cleaning *compns.* containing polyalkylene glycol-type  
 nonionic surfactants)  
 RN 10108-87-9 HCAPLUS  
 CN 1-Decanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Me<sub>3</sub>N<sup>+</sup>-(CH<sub>2</sub>)<sub>9</sub>-Me

● Cl<sup>-</sup>

IT 9002-92-0, Polyethylene glycol monolauryl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (concentrated liquid cleaning *compns.* containing polyalkylene glycol-type  
 nonionic surfactants)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



DOCUMENT NUMBER: 126:282540  
 TITLE: Quaternary ammonium compounds as viscosity regulators for aqueous solutions containing surfactants, and cleaning *compositions* containing the viscosity regulators  
 INVENTOR(S): Koishikawa, Naomi; Kawamata, Taiga  
 PATENT ASSIGNEE(S): Asahi Denka Kogyo KK, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09048963	A2	19970218	JP 1995-202486	19950808
PRIORITY APPLN. INFO.:			JP 1995-202486	19950808

OTHER SOURCE(S): MARPAT 126:282540

AB The viscosity regulators comprise R<sub>1</sub>N+R<sub>2</sub>R<sub>3</sub>(R<sub>4</sub>O)<sub>n</sub>H X- (R<sub>1</sub>-3 = C<sub>1</sub>-3 alkyl; R<sub>4</sub> = alkylene; n = 1-500; X = halo, anionic atomic group). A shampoo containing Na polyoxyethylene dodecyl ether sulfate 20, dodecylmethylamine oxide 5, coco fatty acid diethanolamide 5, stearic acid monoglyceride 10, polyoxypropylenemethyldiethylammonium chloride (I) 2, and H<sub>2</sub>O to 100 weight% showed viscosity 970 cP and good hair-softening and -smoothing effect, while a control without I showed viscosity 5100 cP.

IC ICM C09K003-00

ICS A61K007-075; A61K007-08; C11D003-26; C11D017-08

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 46

IT **Surfactants**

(anionic; polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and *detergents*)

IT **Surfactants**

(cationic; polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and *detergents*)

IT **Surfactants**

(nonionic; polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and *detergents*)

IT **Detergents**

Shampoos

**Surfactants**

Viscosity

(polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and *detergents*)

IT **Polyoxyalkylenes, biological studies**

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(quaternary ammonium compds.; polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants

for

cosmetics and detergents)

IT 112-02-7, Cetyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 1643-20-5, Dodecyldimethylamine oxide 7664-93-9D, Sulfuric acid, esters with tallow alcs., sodium salts,

biological studies 9002-92-0, Polyoxyethylene lauryl ether  
 9003-11-6, Ethylene glycol-propylene glycol copolymer 9004-82-4  
 9016-45-9, Polyoxyethylene nonylphenyl ether  
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and detergents)  
 IT 112-02-7, Cetyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 9002-92-0, Polyoxyethylene lauryl ether  
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (polyoxyalkylene quaternary ammonium compds. as viscosity regulators for aqueous solns. containing surfactants for cosmetics and detergents)  
 RN 112-02-7 HCAPLUS  
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

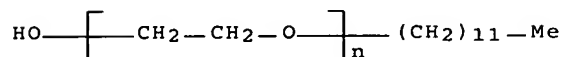
●  $\text{Cl}^-$

RN 112-03-8 HCAPLUS  
 CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{17}-\text{Me}$

●  $\text{Cl}^-$

RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 50 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1996:622791 HCAPLUS Full-text  
 DOCUMENT NUMBER: 125:251094  
 TITLE: Detergent *compositions* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub  
 INVENTOR(S): Inoe, Takumi; Iso, Naoki; Tsukuda, Kazukuni  
 PATENT ASSIGNEE(S): Kao Corp, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08199189	A2	19960806	JP 1995-6857	19950120
JP 2952561	B2	19990927		

PRIORITY APPLN. INFO.: JP 1995-6857 19950120

AB Title *compns.*, showing good detergency to scum and oil and fat, contain (A) cationic surfactants, (B) polyoxyalkylene-substituted anionic surfactants, metal ion-masking agents, and water-soluble solvents at A/B ratio 3/7-7/3. Thus, a *composition* of octylbenzalkonium chloride 3, tetraethylene glycol dodecyl ether sodium sulfate 4, EDTA 4Na salt 3, citric acid 2, diethylene glycol monobutyl ether 7, and water to 100% (pH 6) showed good detergency to polypropylene bath tub stained by soap scum or oil and fat.

IC ICM C11D001-835

ICS C11D003-43; C11D010-02

ICI C11D010-02, C11D001-62, C11D001-29, C11D001-06, C11D001-68, C11D003-20, C11D003-33, C11D003-43, C11D003-32

CC 46-6 (Surface Active Agents and Detergents)

IT Detergents

(Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT Quaternary ammonium compounds, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(alkylbenzyltrimethyl, chlorides, cationic surfactants; Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT Household furnishings

(bathtubs, Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT 4292-10-8 9002-92-0, Polyethylene glycol dodecyl ether

15826-19-4, Tetraethylene glycol dodecyl ether sodium sulfate 19223-55-3 25191-16-6D, dodecyl ethers 27342-88-7D, Dodecanol, polyglycoside derivs. 33939-64-9

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(anionic surfactants; Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT 5538-94-3, Dioctyldimethylammonium chloride

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(cationic surfactants; Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT 64-02-8, EDTA tetrasodium salt 77-92-9, Citric acid, uses

RL: MOA (Modifier or additive use); USES (Uses)

(ion-masking agents; Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

IT 80-73-9, 1,3-Dimethyl-2-imidazolidinone 112-34-5, Diethylene glycol monobutyl ether 2568-33-4 56539-66-3, 3-Methoxy-3-methylbutanol

RL: NUU (Other use, unclassified); USES (Uses)

(solvents; Detergent *compns.* containing surfactants, metal ion-masking agents, and water-soluble solvents for bathtub)

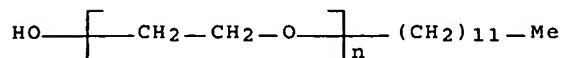
IT 9002-92-0, Polyethylene glycol dodecyl ether

RL: MOA (Modifier or additive use); TEM (Technical or engineered material

USE: USES (Uses)  
 (anionic surfactants; Detergent *compns.* containing surfactants,  
 metal ion-masking agents, and water-soluble solvents for  
 bathtub)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)



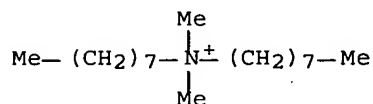
IT 5538-94-3, Dioctyldimethylammonium chloride

RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)

(cationic surfactants; Detergent *compns.* containing surfactants,  
 metal ion-masking agents, and water-soluble solvents for bathtub)

RN 5538-94-3 HCAPLUS

CN 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

L65 ANSWER 51 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:110560 HCAPLUS Full-text

DOCUMENT NUMBER: 122:58902

TITLE: Water-based detergent *compositions*

INVENTOR(S): Mochizuki, Tatsuhiko; Katagiri, Motohiro

PATENT ASSIGNEE(S): Yuken Kogyo Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06192693	A2	19940712	JP 1992-344070	19921224
PRIORITY APPLN. INFO.:			JP 1992-344070	19921224

AB The title nonionic surfactant-based detergent *compns.*, useful for oil-stained  
 metals, contain cationic surfactants, organic acids as builders, and amine  
 compds. Thus, a pH-8.6 *composition* containing gluconic acid 3.0, octylphenol  
 ethylene oxide-propylene oxide adduct 1.3, dimethylalkylbenzylammonium  
 chloride (alkyl C12-18) 0.13, cyclohexylamine-ethylene oxide adduct 2.0, and

polyoxyalkylene glycol antifoaming agent 9.6 showed improved cleanability on washing oil cooled carbon steel gear parts.

- IC ICM C11D003-60  
ICS C23G005-02
- ICI C11D003-60, C11D003-20, C11D003-30, C11D001-62
- CC 46-6 (Surface Active Agents and Detergents)  
Section cross-reference(s): 55, 56
- IT **Detergents**  
(water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkylphenyl group-terminated, water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- IT **Polyoxyalkylenes, uses**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(fatty alkyl group-terminated, water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- IT 78-90-0D, Propylenediamine, coco alkyl, diadipic acid salt  
112-02-7, Trimethylcetylammmonium chloride 52880-57-6,  
Poly(acrylic acid) triethanolamine salt 68110-39-4, Cyclohexylamine  
ethoxylate 137237-16-2  
RL: MOA (Modifier or additive use); USES (Uses)  
(water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- IT 36653-82-4D, Cetyl alcohol, polyoxyalkylene adducts 51312-27-7  
RL: TEM (Technical or engineered material use); USES (Uses)  
(water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- IT 112-02-7, Trimethylcetylammmonium chloride  
RL: MOA (Modifier or additive use); USES (Uses)  
(water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- RN 112-02-7 HCAPLUS
- CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

●  $\text{Cl}^-$

- IT 36653-82-4D, Cetyl alcohol, polyoxyalkylene adducts  
RL: TEM (Technical or engineered material use); USES (Uses)  
(water-based detergents containing nonionic and cationic surfactants and organic acid builders and amines)
- RN 36653-82-4 HCAPLUS
- CN 1-Hexadecanol (9CI) (CA INDEX NAME)

$\text{HO}-(\text{CH}_2)_{15}-\text{Me}$

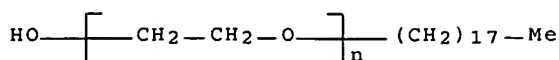
165 ANSWER 52 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN-  
 ACCESSION NUMBER: 1994:582427 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:182427  
 TITLE: Detergent *compositions* with high boiling and  
 flash points  
 INVENTOR(S): Izaiku, Hiromi; Yoshiumi, Hiroshi; Okumura, Fumitada  
 PATENT ASSIGNEE(S): Nippon Oils & Fats Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06057291	A2	19940301	JP 1992-235384	19920811
PRIORITY APPLN. INFO.:			JP 1992-235384	19920811
AB The low-pollution title <i>compns.</i> contain aromatic polyethers R1mC6H5-mR20(AO)aR3 (R1 = C1-6 alkyl, alkoxy; m = 0-3; R2 = C1-8 alkylene; A = C2-4 alkylene; a = 1-10; R3 = H, C1-24 hydrocarbyl, C2-22 acyl) and optionally surfactants and inorg. alkalis. The polyethers include triethylene glycol monobenzyl ether.				
IC ICM C11D001-72				
ICS C11D001-722				
CC 46-6 (Surface Active Agents and Detergents)				
IT <i>Polyoxyalkylenes, uses</i> Quaternary ammonium compounds, uses RL: TEM (Technical or engineered material use); USES (Uses) (cleaning <i>compns.</i> containing, low-pollution)				
IT <i>Detergents</i> (cleaning <i>compns.</i> , polyoxyalkylene-based, low-pollution)				
IT 112-03-8, Stearyltrimethylammonium chloride 1639-66-3 9005-00-9, Polyethylene glycol stearyl ether 9016-45-9, Polyethylene glycol nonylphenyl ether 26403-74-7, Polyethylene glycol monobenzyl ether 34431-26-0 55489-58-2, Triethylene glycol monobenzyl ether 59079-49-1 132775-12-3 133177-27-2 157485-59-1 157710-11-7 157710-18-4 RL: TEM (Technical or engineered material use); USES (Uses) (cleaning <i>compns.</i> containing, low-pollution)				
IT 112-03-8, Stearyltrimethylammonium chloride 9005-00-9, Polyethylene glycol stearyl ether RL: TEM (Technical or engineered material use); USES (Uses) (cleaning <i>compns.</i> containing, low-pollution)				
RN 112-03-8 HCAPLUS				
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)				

Me<sub>3</sub>N—(CH<sub>2</sub>)<sub>17</sub>—Me

● C1 -

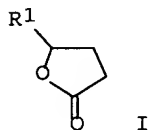
RN 9005-00-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-octadecyl-ω-hydroxy- (9CI) (CA  
 INDEX NAME)



L65 ANSWER 53 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1994:137733 HCAPLUS Full-text  
 DOCUMENT NUMBER: 120:137733  
 TITLE: Nonpolluting cleaning *compositions*  
 INVENTOR(S): Izaiku, Hiromi; Yoshiumi, Hiroshi; Kadoma, Yoshihito;  
 Okumura, Fumitada  
 PATENT ASSIGNEE(S): Nippon Oils & Fats Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05125396	A2	19930521	JP 1991-317509	19911105
PRIORITY APPLN. INFO.:			JP 1991-317509	19911105
OTHER SOURCE(S):	MARPAT	120:137733		

GI



AB Nonflammable and nonexplosive cleaning *compns.* useful for defluxing printed circuit boards and degreasing metal surfaces contain lactones I (R1 = H, C1-6 hydrocarbyl) or R20(A10)aX(OA2)bOR3 (R2-3 = C1-6 hydrocarbyl; A1-2 = C2-4 alkylene; X = C1-8 alkylene, C2-9 dicarboxylic acid acyl residue; a, b = 0-10; a + b = 1-20). Thus, a 90:10 mixture of  $\gamma$ -butyrolactone and H2O cleaned grease-stained glass at high efficiency.

IC ICM C11D007-50  
 ICS C11D007-26; H05K003-26

CC 46-6 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 76

IT Lactones  
*Polyoxyalkylenes, uses*  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (cleaning *compns.* containing, for degreasing and flux removal)

IT *Detergents*  
 (cleaning *compns.*, lactones or polyoxyalkylene ethers for)

IT *Detergents*  
 (degreasing *compns.*, lactones or polyoxyalkylene ethers for)

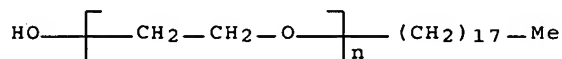


IT 36-48-0,  $\gamma$ -Butyrolactone, 105-21-5 112-49-2, 2,5,8,11-Tetraoxadodecane 26962-29-8 153043-73-3 153130-07-5 153130-20-2 153130-29-1  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (cleaning *compns.* containing, for degreasing and flux removal)  
 IT 112-03-8 2799-63-5 9005-00-9 9016-45-9 59650-73-6  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants, cleaning *compns.* containing, for degreasing and flux removal)  
 IT 112-03-8 9005-00-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants, cleaning *compns.* containing, for degreasing and flux removal)  
 RN 112-03-8 HCAPLUS  
 CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3\text{N}^+-(\text{CH}_2)_{17}-\text{Me}$

●  $\text{Cl}^-$

RN 9005-00-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octadecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 54 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1991:516851 HCAPLUS Full-text  
 DOCUMENT NUMBER: 115:116851  
 TITLE: Improved aqueous cleaner/degreaser  
*compositions* containing organic solvents with low water solubility  
 INVENTOR(S): Vaneenam, Donald N.  
 PATENT ASSIGNEE(S): Buckeye International, Inc., USA  
 SOURCE: PCT Int. Appl., 53 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9100336	A1	19910110	WO 1990-US3316	19900612
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
US 5080831	A	19920114	US 1989-373813	19890629
AU 9059593	A1	19910117	AU 1990-59593	19900612

AU 626704 B2 19920806  
 EP 479908 A1 19920415 EP 1990-911174 19900612  
 EP 479908 B1 19950308  
 R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE  
 JP 05500524 T2 19930204 JP 1990-510099 19900612  
 CA 2056425 C 19951212 CA 1990-2056425 19900612

## PRIORITY APPLN. INFO.:

US 1989-373813 A 19890629  
 WO 1990-US3316 A 19900612

- AB The title *compns.* contain water,  $\geq 1$  organic solvent, and a solubilizing additive which comprises a surfactant and optionally a coupler and is present in a concentration  $< .\text{apprx.} 10$  times the amount required to completely solubilize the solvent. The solvent has water solubility 2-6%, is not a hydrocarbon or halocarbon, has  $\leq 1$  functional group containing O, N, S, or P, dissolves hydrophobic soils, and is present in a concentration exceeding its water solubility. The *compns.* give better cleaning and degreasing than *compns.* containing infinitely soluble organic solvents such as BuOCH<sub>2</sub>CH<sub>2</sub>OH. The *composition* containing PhOCH<sub>2</sub>CH<sub>2</sub>OH 8.0, dodecylbenzenesulfonic acid 1.2, 50% NaOH 0.3, Hampene 100 0.6, dyes 0.002, and H<sub>2</sub>O 189.9 parts gave good cleaning of less soiled with petroleum gelly.
- IC ICM C11D003-44  
 ICS C11D001-12; C11D001-66; C11D007-52
- CC 46-6 (Surface Active Agents and Detergents)
- IT Solvents  
 (organic, aqueous cleaner-degreaser *compns.* containing, with low water solubility)
- IT Esters, uses and miscellaneous  
 Ethers, uses and miscellaneous  
 RL: USES (Uses)  
 (solvents, aqueous cleaner-degreaser *compns.* containing)
- IT Solubilizers  
 (surfactants, for organic solvents in aqueous cleaner-degreaser *compns.* .)
- IT Detergents  
 (cleaning *compns.*, liquid, aqueous, containing organic solvents with low water solubility)
- IT Detergents  
 (degreasing *compns.*, aqueous, containing organic solvents with low water solubility)
- IT 120-40-1, Lauric diethanolamide 143-00-0, Diethanolamine lauryl sulfate 143-19-1, Sodium oleate 151-21-3, Sodium lauryl sulfate, uses and miscellaneous 1331-61-9, Ammonium dodecylbenzenesulfonate 2390-68-3, Didecyldimethylammonium bromide 9002-92-0, Polyethylene glycol monolauryl ether 9004-81-3, Polyethylene glycol monolaurate 9004-82-4 9005-67-8 9014-90-8, Polyethylene glycol mono(nonylphenyl) ether sulfate sodium salt 9014-92-0, Polyethylene glycol mono(dodecylphenyl) ether 9016-45-9, Polyethylene glycol mono(nonylphenyl) ether 9036-19-5, Polyethylene glycol mono(octylphenyl) ether 10124-65-9, Potassium laurate 12068-08-5, Morpholinium dodecylbenzenesulfonate 12626-49-2, Dowfax 2A1 15015-81-3, Sodium 1-hexadecanesulfonate 24938-91-8, Polyethylene glycol monotridecyl ether 25155-30-0, Sodium dodecylbenzenesulfonate 25339-99-5, Sucrose monolaurate 26248-24-8, Sodium tridecylbenzenesulfonate 26264-05-1, Dodecylbenzenesulfonic acid isopropylamine salt 27176-87-0, Dodecylbenzenesulfonic acid 27177-77-1, Potassium dodecylbenzenesulfonate 27177-78-2, Sodium dinonylbenzenesulfonate 27323-41-7 29062-31-5, Potassium didodecylbenzenesulfonate 30260-72-1, Dodecyldisulfodiphenyl ether 31587-78-7, Ethoxylated lauramide 32612-48-9, Polyethylene glycol monolauryl ether sulfate ammonium salt 34448-38-9, Polyethylene glycol mono(2-undecylthioethyl) ether 38815-93-9 41669-40-3, Triethanolamine

myristate 50660-84-9, Polyethylene glycol monolauryl monomethyl ether 61792-31-2, Lauramidopropyl-N,N-dimethylamine oxide 61926-71-4, Polyethylene glycol monoundecanoate 63713-48-4, Polyethylene glycol monododecyl ether phosphate sodium salt 65060-02-8, Hexadecyltrimethylammonium methosulfate 78336-35-3 94668-42-5, Potassium octadecenylsuccinate 97343-41-4, Polyethylene glycol mono(octylphenyl) ether phosphate potassium salt 103657-84-7, Ethylene oxide-propylene oxide copolymer monononyl ether 106494-51-3, Ethylene oxide-propylene oxide block copolymer monomethyl ether 131744-02-0 134192-42-0 134267-38-2, Decyldisulfodiphenyl ether isopropylamine salt 134290-64-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(solubilizer, for *solvents* in aqueous cleaner-degreaser *compns.*)

IT 60-12-8, 2-Phenylethanol 78-59-1, Isophorone 98-86-2, Acetophenone, uses and miscellaneous 100-47-0, Benzonitrile, uses and miscellaneous 100-51-6, Benzyl alcohol, uses and miscellaneous 100-52-7, Benzaldehyde, uses and miscellaneous 106-65-0, Dimethyl succinate 108-10-1, Isobutyl methyl ketone 108-94-1, Cyclohexanone, uses and miscellaneous 112-07-2, 2-Butoxyethyl acetate 122-99-6, 2-Phenoxyethanol 627-93-0, Dimethyl adipate 770-35-4, 1-Phenoxy-2-propanol 1119-40-0, Dimethyl glutarate

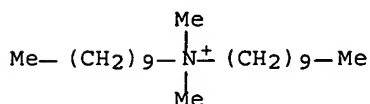
RL: USES (Uses)  
(solvents, aqueous cleaner-degreaser *compns.* containing solubilizer and)

IT 2390-68-3, Didecyldimethylammonium bromide 9002-92-0, Polyethylene glycol monolauryl ether 24938-91-8, Polyethylene glycol monotridecyl ether 65060-02-8, Hexadecyltrimethylammonium methosulfate

RL: TEM (Technical or engineered material use); USES (Uses)  
(solubilizer, for *solvents* in aqueous cleaner-degreaser *compns.*)

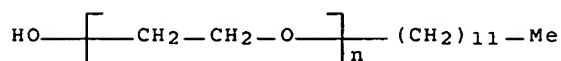
RN 2390-68-3 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



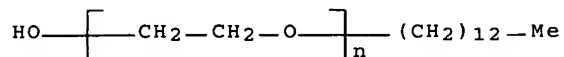
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 24938-91-8 HCAPLUS

CM 1 poly(oxy-1,2-ethanediyll,  $\alpha$ -tridecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



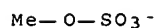
RN 65060-02-8 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 21228-90-0

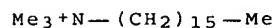
CMF C H3 O4 S



CM 2

CRN 6899-10-1

CMF C19 H42 N



L65 ANSWER 55 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:212124 HCAPLUS Full-text

DOCUMENT NUMBER: 100:212124

TITLE: Detergent *compositions* for flush toilets

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 58142997	A2	19830825	JP 1982-25160	19820218
JP 02043799	B4	19901001		

PRIORITY APPLN. INFO.: JP 1982-25160 19820218

AB The title *compns.* contain (1) a cationic surfactant, (2) a poly(oxyethylene) alkyl ether or poly(oxyethylene) alkylphenyl ether, and (3) maleic acid or anhydride polymer or its water-soluble salt. Thus, a detergent *composition* comprising stearyltrimethylammonium chloride [ 112-03-8], poly(oxyethylene)

40-6] prevented excretion soiling and silicic acid scale.

IC C11D001-835; C11D003-37

ICI C11D001-835, C11D001-62, C11D001-72

CC 46-6 (Surface Active Agents and Detergents)

ST cleaning *compn* flush toilet; quaternary ammonium cleaning *compn*; polyoxyalkylene ether cleaning *compn* toilet; maleic acid copolymer cleaning *compn*

IT **Polyoxyalkylenes**  
 RL: USES (Uses)  
 (ethers, cleaning *compns.* containing, for flush toilets)

IT Scale (coating)  
 (removal of, from flush toilets, cleaning *compns.* for)

IT **Detergents**  
 (cleaning *compns.*, tetraalkylammonium chloride-polyoxyethylene ether-maleic acid polymer *compns.*, for flush toilets)

IT Toilets  
 (flush, cleaning *compns.* for, quaternary ammonium chloride-polyoxyalkylene ether-maleic acid polymer *compns.* as)

IT Quaternary ammonium compounds, uses and miscellaneous  
 RL: USES (Uses)  
 (tetraalkyl, chlorides, cleaning *compns.* containing, for flush toilets)

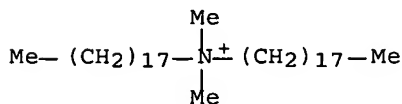
IT 107-64-2 112-03-8 122-19-0 9002-92-0  
 9016-45-9 10108-91-5 25153-40-6 26099-09-2  
 27252-75-1 88254-41-5 90216-26-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (cleaning *compns.* containing, for flush toilets)

IT 1343-98-2  
 RL: USES (Uses)  
 (scale, on flush toilets, cleaning *compns.* for removal of)

IT 107-64-2 112-03-8 9002-92-0 10108-91-5  
 27252-75-1 88254-41-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (cleaning *compns.* containing, for flush toilets)

RN 107-64-2 HCAPLUS

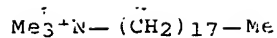
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

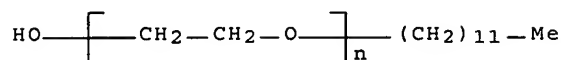
RN 112-03-8 HCAPLUS

CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



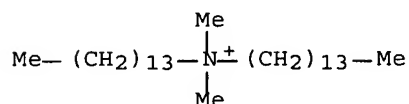
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



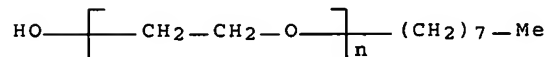
RN 10108-91-5 HCAPLUS

CN 1-Tetradecanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



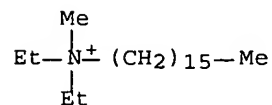
RN 27252-75-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RN 88254-41-5 HCAPLUS

CN 1-Hexadecanaminium, N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)



L65 ANSWER 56 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:9007 HCAPLUS Full-text

DOCUMENT NUMBER: 100:9007

TITLE: Prevention of soiling of glass or ceramic surfaces

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58076477	A2	19830509	JP 1981-172985	19811030
JP 01031557	B4	19890627		

PRIORITY APPLN. INFO.: JP 1981-172985 19811030

AB H2O containing 0.05-20 ppm cationic surfactants and 1-50 ppm polyoxyethylene alkyl(phenyl) ether prevents soiling. Thus, part of tile was dipped in water containing 0.2 ppm C18H37NEt3+ Cl- [112-03-8] and 5.0 ppm polyoxyethylene lauryl ether [9002-92-0] without formation of scale.

IC C09K003-00; C11D001-835

CC 46-6 (Surface Active Agents and Detergents)

ST soiling prevention surfactant *compn*; glass soiling prevention surfactant; ceramic soiling prevention surfactant; polyoxyethylene ether soiling prevention; quaternary ammonium soiling prevention; cationic surfactant soiling prevention; tile soiling prevention surfactant

IT *Polyoxyalkylenes*

Quaternary ammonium compounds, uses and miscellaneous

RL: USES (Uses)

(in antisoiling *compns.* for ceramics and glass)

IT Scale (coating)

(prevention of, on ceramics and glass, surfactant *compns.* for)IT *Detergents*(cationic, in antisoiling *compns.* for ceramics and glass)

IT 107-64-2 112-03-8 122-19-0 9002-92-0

9016-45-9 10108-91-5 27252-75-1 88254-41-5

RL: USES (Uses)

(in antisoiling *compns.* for ceramics and glass)

IT 107-64-2 112-03-8 9002-92-0 10108-91-5

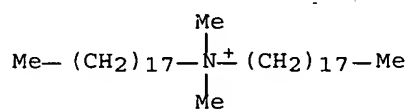
27252-75-1 88254-41-5

RL: USES (Uses)

(in antisoiling *compns.* for ceramics and glass)

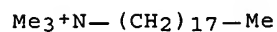
RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



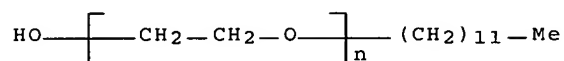
RN 112-03-8 HCAPLUS

CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



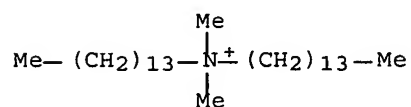
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



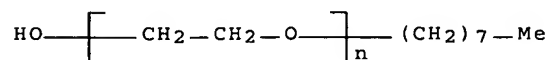
RN 10108-91-5 HCAPLUS

CN 1-Tetradecanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



RN 27252-75-1 HCAPLUS

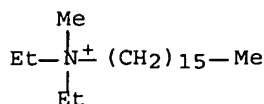
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -octyl- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)





RN 88254-41-5 HCAPLUS

CN 1-Hexadecanaminium, N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)



● C1 -

L65 ANSWER 57 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:494452 HCAPLUS Full-text

DOCUMENT NUMBER: 97:94452

TITLE: Dry-cleaning *compositions*

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57053600	A2	19820330	JP 1980-128023	19800917
JP 59010759	B4	19840310		

PRIORITY APPLN. INFO.: JP 1980-128023 19800917

AB Dry-cleaning *compns.* contain 5-80% solvents and a *compn.* comprising quaternary ammonium cationic surfactants 15-50, dialkyl sulfosuccinates 3-20, and nonionic surfactants 30-80%. Thus, a cleaning *composition* contained 40% petroleum solvent and 60% surfactants containing bis(hydroxyethyl)ethylstearylammmonium chloride [65270-81-7] 35, Na dioctyl sulfosuccinate (I) [577-11-7] 15, poly(oxyethylene) nonylphenyl ether [9016-45-9] 50%. The *composition* had detergency 88%, soil redeposition power (cotton) 95%, water-holding power 7.5 mL, good antistatic properties, and good softness, compared with 79, 89, 2, good, and good, resp., for *composition* having linear dodecylbenzenesulfonic acid triethanolamine salt in place of I.

IC C11D007-50; C11D001-28; C11D001-62; C11D001-66

CC 46-5 (Surface Active Agents and Detergents)

ST petroleum solvent dry cleaning *compn.*; dry cleaning *compn.*; surfactant dry cleaning *compn.*; sulfosuccinate surfactant dry cleaning *compn.*; nonionic surfactant dry cleaning *compn.*

IT Quaternary ammonium compounds, uses and miscellaneous

RL: USES (Uses)

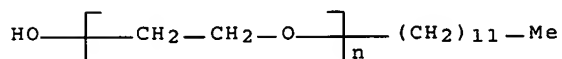
(dry-cleaning *compns.*, containing solvents, nonionic surfactants and dialkyl sulfosuccinates)

IT 128-49-4 577-11-7 82692-55-5

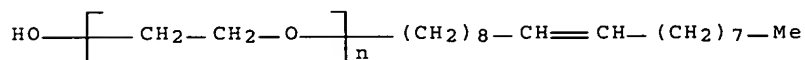
RL: USES (Uses)

(dry-cleaning *compns.*, containing cationic and nonionic surfactants and solvents)

TT 120-4041 9002-92-0 9004-98-2 9016-15-9 9036-19-5  
 RL: USES (Uses)  
 (dry-cleaning *compns.*, containing cationic surfactants, dialkyl  
 sulfosuccinates and *solvents*)  
 IT 18448-65-2 28228-59-3 65270-81-7  
 82684-81-9  
 RL: USES (Uses)  
 (dry-cleaning *compns.*, containing solvents, dialkyl  
 sulfosuccinates and nonionic surfactants)  
 IT 9002-92-0 9004-98-2  
 RL: USES (Uses)  
 (dry-cleaning *compns.*, containing cationic surfactants, dialkyl  
 sulfosuccinates and *solvents*)  
 RN 9002-92-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -dodecyl- $\omega$ -hydroxy- (9CI) (CA  
 INDEX NAME)

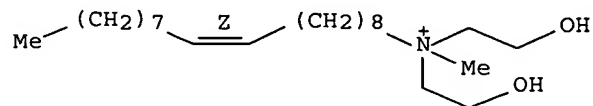


RN 9004-98-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(9Z)-9-octadecenyl- $\omega$ -hydroxy-  
 (9CI) (CA INDEX NAME)



IT 18448-65-2 28228-59-3 65270-81-7  
 82684-81-9  
 RL: USES (Uses)  
 (dry-cleaning *compns.*, containing solvents, dialkyl  
 sulfosuccinates and nonionic surfactants)  
 RN 18448-65-2 HCAPLUS  
 CN 9-Octadecen-1-aminium, N,N-bis(2-hydroxyethyl)-N-methyl-, chloride, (9Z)-  
 (9CI) (CA INDEX NAME)

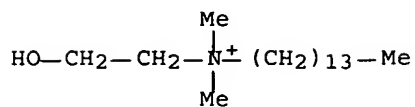
Double bond geometry as shown.



RN 28228-59-3 HCAPLUS  
 CN 1-Tetradecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA

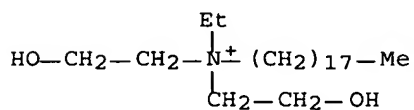
INDEX NAME)

INDEX NAME)



RN 65270-81-7 HCAPLUS

CN 1-Octadecanaminium, N-ethyl-N,N-bis(2-hydroxyethyl)-, chloride (9CI) (CA INDEX NAME)



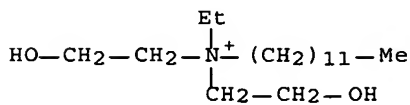
RN 82684-81-9 HCAPLUS

CN 1-Dodecanaminium, N-ethyl-N,N-bis(2-hydroxyethyl)-, ethyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 82684-80-8

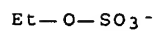
CMF C18 H40 N O2



CM 2

CRN 48028-76-8

CMF C2 H5 O4 S



L65 ANSWER 58 OF 58 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1978:54977 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:54977  
 TITLE: Transparent hair rinsing *composition*  
 containing polyoxyethylene ether surfactants  
 INVENTOR(S): Watanabe, Hiroshi; Shirose, Toshihiro; Iijima, Eiji  
 PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan  
 SOURCE: Ger. Offen., 22 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2710468	A1	19771013	DE 1977-2710468	19770310
DE 2710468	B2	19790510		
JP 52117442	A2	19771001	JP 1976-34764	19760329
JP 56032286	B4	19810727		
US 4160823	A	19790710	US 1977-774257	19770304
GB 1522125	A	19780823	GB 1977-9934	19770309
ES 457230	A1	19780601	ES 1977-457230	19770325
			JP 1976-34764	A 19760329

## PRIORITY APPLN. INFO.:

AB Transparent hair rinses containing decreased amts. of *solvent* comprise 0.1-10%  $\geq$ 1 quaternary ammonium salt, 0.1-10% nonionic polyoxyethylene alkyl or alkenyl ether or alkylphenyl ether surfactant, 5-30% *solvent* including lower mono- or polyhydric alcs. or glycols, and H<sub>2</sub>O. For example, a transparent rinse contains stearyltrimethylammonium chloride [112-03-8] 3.0, polyethylene lauryl ether [9002-92-0] containing 3 oxyethylene groups 2.0, EtOH [64-17-5] 5.0, propylene glycol [57-55-6] 10.0, H<sub>2</sub>O 80.0% and small amts. of perfume and dye. The *composition* left hair soft shiny and with good body, and remained transparent after storage at -5° for a month.

IC A61K007-08

CC 62-3 (Essential Oils and Cosmetics)

## INSTANT APPLICATION

=&gt; d que l3

L1 1 SEA FILE=HCAPLUS ABB=ON PLU=ON US2005-537556/AP  
 L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON 25322-68-3/BI  
 L3 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L1 AND L2

=&gt; d l3 iall hitstr

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:470324 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:25361  
 ENTRY DATE: Entered STN: 10 Jun 2004  
 TITLE: Concentrated quaternary ammonium composition for  
 detergent  
 INVENTOR(S): Gallotti, Manlio; Perira de Moraes, Patricia Ramos;  
 Cavalcante, Cassio Queiroz  
 PATENT ASSIGNEE(S): Clariant International Ltd., Switz.  
 SOURCE: Eur. Pat. Appl., 9 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 INT. PATENT CLASSIF.:  
 MAIN: C07C211-63  
 SECONDARY: C07C213-04; C07C213-08; C11D001-835; C07C217-50;  
 C11D001-62; C11D003-43  
 CLASSIFICATION: 46-5 (Surface Active Agents and Detergents)  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1426354	A1	20040609	EP 2002-27119	20021204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004050605	A1	20040617	WO 2003-EP13279	20031126
W: BR, CA, CN, JP, KR, MX, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
BR 2003017022	A	20051025	BR 2003-17022	20031126
US 2006135389	A1	20060622	US 2005-537556	20051212 <--
PRIORITY APPLN. INFO.:			EP 2002-27119	A 20021204
			WO 2003-EP13279	A 20031126

## PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1426354	ICM	C07C211-63
	ICS	C07C213-04; C07C213-08; C11D001-835; C07C217-50; C11D001-62; C11D003-43
	IPCI	C07C0211-63 [ICM,7]; C07C0211-00 [ICM,7,C*]; C07C0213-04 [ICS,7]; C07C0213-08 [ICS,7]; C07C0213-00 [ICS,7,C*]; C11D0001-835 [ICS,7]; C07C0217-50 [ICS,7]; C07C0217-00 [ICS,7,C*]; C11D0001-62 [ICS,7]; C11D0001-38 [ICS,7,C*]; C11D0003-43 [ICS,7]
	IPCR	C11D0001-38 [N,C*]; C11D0001-62 [N,A]; C11D0001-72 [N,A]; C11D0001-72 [N,C*]; C11D0001-835 [I,A]; C11D0001-835 [I,C*]
	ECLA	C11D001/835
WO 2004050605	IPCI	C07C0211-63 [ICM,7]; C07C0211-00 [ICM,7,C*];

C07C0213-04 [ICS,7]; C07C0213-08 [ICS,7]; C07C0213-00 [ICS,7,C\*]; C11D0001-835 [ICS,7]; C07C0217-50 [ICS,7]; C07C0217-00 [ICS,7,C\*]; C11D0001-62 [ICS,7]; C11D0001-38 [ICS,7,C\*]; C11D0003-43 [ICS,7]

IPCR C11D0001-38 [N,C\*]; C11D0001-62 [N,A]; C11D0001-72 [N,A]; C11D0001-72 [N,C\*]; C11D0001-835 [I,A]; C11D0001-835 [I,C\*]

ECLA C11D001/835

BR 2003017022 IPCI C07C0211-63 [ICM,7]; C07C0211-00 [ICM,7,C\*]; C07C0213-04 [ICS,7]; C07C0213-08 [ICS,7]; C07C0213-00 [ICS,7,C\*]; C11D0001-835 [ICS,7]; C07C0217-50 [ICS,7]; C07C0217-00 [ICS,7,C\*]; C11D0001-62 [ICS,7]; C11D0001-38 [ICS,7,C\*]; C11D0003-43 [ICS,7]

IPCR C11D0001-38 [N,C\*]; C11D0001-62 [N,A]; C11D0001-72 [N,A]; C11D0001-72 [N,C\*]; C11D0001-835 [I,A]; C11D0001-835 [I,C\*]

ECLA C11D001/835

US 2006135389 IPCI C07C0211-64 [I,A]; C07C0211-63 [I,A]; C07C0211-00 [I,C\*]; C11D0003-386 [I,A]; C11D0003-38 [I,C\*]

NCL 510/329.000; 564/281.000; 564/282.000

ECLA C11D001/835

OTHER SOURCE(S): MARPAT 141:25361

#### ABSTRACT:

The quaternary ammonium composition essentially consists of (a) a cationic compound with general formula  $R_1R_2R_3R_4N^+X^-$  wherein  $R_1$  is C8-C22-alkyl, C8-C22-alkenyl, C8-C22-alkylamidopropyl, C8-C22-alkenyl-amidopropyl, C8-C22-alkyl/alkenyl(poly)alkoxyalkyl, C8-C22-alkanoyl ethyl or C8-C22-alkenoyl ethyl,  $R_2$ ,  $R_3$  and  $R_4$  are C1-C22-alkyl, C2-C22-alkenyl or a group of the formula  $-A-(OA)_n-OH$ ,  $A$  is  $-C_2H_4-$  and/or  $-C_3H_6-$ ,  $n$  is a number from 0 to 20 and  $X$  is an anion, (b) water and (c) a nonionic solvent of the general formula  $R-O-(AO)_nH$ , where  $R$  is H, alkyl or alkenyl containing 8 to 22 carbon atoms, or Ph,  $A$  is  $C_2H_4$  and/or  $C_3H_6$  and  $n$  is a number from 0 to 20, which composition is characterized in that

it contains less than 20% of water. Thus, adding a 34% HCl 150 to a mixture of C12/C14/C16 alc. polyglycol 7 EO 1460 and dimethylalkyl(C12/C14/C16)amine 324 g, after the exothermic reaction, mixing at 70-75° for 2 h gave a clear slightly yellow liquid which was then ethoxylated with ethylene oxide to give a target product. The final product could be condensed to a high solid level while remaining liquid

SUPPL. TERM: quaternary ammonium ethoxylate cationic detergent

INDEX TERM: Amines, uses

ROLE: TEM (Technical or engineered material use); USES (Uses)

(C12-16-alkyldimethyl, quaternary compds.; manufacture of concentrated quaternary ammonium composition for detergent)

INDEX TERM: Surfactants

(cationic; manufacture of concentrated quaternary ammonium composition for detergent)

INDEX TERM: Polyoxyalkylenes, uses

ROLE: TEM (Technical or engineered material use); USES (Uses)

(ethers, for solvent; manufacture of concentrated quaternary ammonium composition for detergent)

INDEX TERM: Polyoxyalkylenes, uses

ROLE: TEM (Technical or engineered material use); USES (Uses)

(higher alkyl ethers; manufacture of concentrated quaternary ammonium composition for detergent)

INDEX TERM: Detergents  
 (manufacture of concentrated quaternary ammonium composition  
 for  
 detergent)

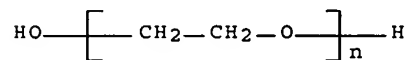
INDEX TERM: Quaternary ammonium compounds, uses  
 ROLE: TEM (Technical or engineered material use); USES  
 (Uses)  
 (manufacture of concentrated quaternary ammonium composition  
 for  
 detergent)

INDEX TERM: 25322-68-3D, Polyethylene glycol, higher alkyl  
 ethers  
 ROLE: TEM (Technical or engineered material use); USES  
 (Uses)  
 (manufacture of concentrated quaternary ammonium composition  
 for  
 detergent)

IT 25322-68-3D, Polyethylene glycol, higher alkyl ethers  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (manufacture of concentrated quaternary ammonium composition for detergent)

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX  
 NAME)



## INVENTOR SEARCH

=> fil hcap medline embase biosis

FILE 'HCAPLUS' ENTERED AT 16:34:35 ON 26 SEP 2006

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FILE 'EMBASE' ENTERED AT 16:34:35 ON 26 SEP 2006

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FILE 'BIOSIS' ENTERED AT 16:34:35 ON 26 SEP 2006

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=> d que 174

L66 27 SEA ("GALLOTTI M"/AU OR "GALLOTTI MANLIO"/AU)  
 L67 9 SEA ("DE MORAES P"/AU OR "DE MORAES P R P"/AU OR "DE MORAES  
 PATRICIA R P"/AU)  
 L68 7 SEA ("CAVALCANTE C"/AU OR "CAVALCANTE CASSIO QUEIROZ"/AU)  
 L69 1 SEA (L66 AND (L67 OR L68)) OR (L67 AND L68)  
 L70 42 SEA (L66 OR L67 OR L68)  
 L71 3 SEA L70 AND QUATERNARY  
 L72 3 SEA L70 AND DETERGENT  
 L73 4 SEA L69 OR L71 OR L72  
 L74 4 DUP REM L73 (0 DUPLICATES REMOVED)

=> d 174 ibib abs 1-4

L74 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1095736 HCAPLUS Full-text

DOCUMENT NUMBER: 143:369141

TITLE: Easy-dispersible concentrate ester quat compositions

INVENTOR(S): *Gallotti, Manlio*; Nunes, George; Kume,  
 Gustavo R.; Morales, Cesar

PATENT ASSIGNEE(S): Clariant GmbH, Germany

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1584674	A1	20051012	EP 2004-7510	20040329
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
WO 2005095568	A1	20051013	WO 2005-EP3004	20050322
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				



RO, SE, SI, SK, TR, BF, BJ, ~~GP~~, ~~CG~~, CI, CM, GA, GN, GO, GW, ML,  
MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: EP 2004-7510 A 20040329  
OTHER SOURCE(S): MARPAT 143:369141

AB The ester quat concentrate suitable for production of fabric softeners at lower temps. comprises (a) an ester quat compound, (b) an organic solvent, (c) H<sub>2</sub>O, and (d) pH modifier. Although the presence of H<sub>2</sub>O in an ester quat concentrate is generally avoided due to the known instability towards hydrolysis reaction, H<sub>2</sub>O is essential to the dispersibility at lower temps., which consequently leads to an increase in the final product viscosity. One way to solve this problem is by keeping the hydrolysis under control through the addition of a selected pH modifier (0.1-3%).

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L74 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:470324 HCAPLUS Full-text

DOCUMENT NUMBER: 141:25361

TITLE: Concentrated *quaternary* ammonium composition for *detergent*

INVENTOR(S): Gallotti, Manlio; Perira de Moraes, Patricia Ramos; Cavalcante, Cassio Queiroz

PATENT ASSIGNEE(S): Clariant International Ltd., Switz.

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1426354	A1	20040609	EP 2002-27119	20021204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004050605	A1	20040617	WO 2003-EP13279	20031126
W: BR, CA, CN, JP, KR, MX, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
BR 2003017022	A	20051025	BR 2003-17022	20031126
US 2006135389	A1	20060622	US 2005-537556	20051212
PRIORITY APPLN. INFO.:			EP 2002-27119	A 20021204
			WO 2003-EP13279	A 20031126

OTHER SOURCE(S): MARPAT 141:25361

AB The *quaternary* ammonium composition essentially consists of (a) a cationic compound with general formula R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>R<sub>4</sub>N<sup>+</sup>X<sup>-</sup> wherein R<sub>1</sub> is C<sub>8</sub>-C<sub>22</sub>-alkyl, C<sub>8</sub>-C<sub>22</sub>-alkenyl, C<sub>8</sub>-C<sub>22</sub>-alkylamidopropyl, C<sub>8</sub>-C<sub>22</sub>-alkenyl-amidopropyl, C<sub>8</sub>-C<sub>22</sub>-alkyl/alkenyl(poly)alkoxyalkyl, C<sub>8</sub>-C<sub>22</sub>-alkanoyl ethyl or C<sub>8</sub>-C<sub>22</sub>-alkenoyl ethyl, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are C<sub>1</sub>-C<sub>22</sub>-alkyl, C<sub>2</sub>-C<sub>22</sub>-alkenyl or a group of the formula -A-(OA)<sub>n</sub>-OH, A is -C<sub>2</sub>H<sub>4</sub>- and/or -C<sub>3</sub>H<sub>6</sub>-, n is a number from 0 to 20 and X is an anion, (b) water and (c) a nonionic solvent of the general formula R-O-(AO)<sub>n</sub>H, where R is H, alkyl or alkenyl containing 8 to 22 carbon atoms, or Ph, A is C<sub>2</sub>H<sub>4</sub> and/or C<sub>3</sub>H<sub>6</sub> and n is a number from 0 to 20, which composition is characterized in that it contains less than 20% of water. Thus, adding a 34% HCl 150 to a mixture of C12/C14/C16 alc. polyglycol 7 EO 1460 and dimethylalkyl(C12/C14/C16)amine 324 g, after the exothermic reaction, mixing at 70-75° for 2 h gave a clear slightly yellow liquid which was then ethoxylated with ethylene oxide to give a target product. The final product could be condensed to a high solid level while remaining liquid

L74 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:851325 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:8130  
 TITLE: Light duty liquid cleaners composition  
 INVENTOR(S): Gallotti, Manlio; Nunes, George  
 PATENT ASSIGNEE(S): Clariant International Ltd., Switz.  
 SOURCE: PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001088073	A1	20011122	WO 2001-EP5420	20010511
W: BR, JP, MX, US				
EP 1158040	A1	20011128	EP 2000-110420	20000516
EP 1158040	B1	20051123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
ES 2251908	T3	20060516	ES 2000-110420	20000516
BR 2001010835	A	20030311	BR 2001-10835	20010511
JP 2003533587	T2	20031111	JP 2001-585282	20010511
US 2004023832	A1	20040205	US 2003-276209	20030605
US 6897187	B2	20050524		
PRIORITY APPLN. INFO.:			EP 2000-110420	A 20000516
			WO 2001-EP5420	W 20010511

OTHER SOURCE(S): MARPAT 136:8130

AB A clear liquid **detergent** composition suitable for use in dishwashing and multipurpose cleaners for household application as well as for industrial and institutional uses, is composed by a) an anionic surfactant or association of anionic surfactants in the range of 1-40%; b) a cationic surfactant or association of cationic surfactants in the range of 0.01-10%; c) optionally amphoteric and/or nonionic surfactants in the range of 0.05-15%.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L74 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:900185 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:39158  
 TITLE: Liquid all-purpose cleaners  
 INVENTOR(S): Gallotti, Manlio; Nunes, George; Andrade da Luz, Marcelo  
 PATENT ASSIGNEE(S): Clariant International Ltd., Switz.  
 SOURCE: Eur. Pat. Appl., 10 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1162254	A1	20011212	EP 2000-112375	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
WO 2001094511	A1	20011213	WO 2001-EP6403	20010606
W: BR, JP, MX, US				

10/537,556

September 26, 2006

BR 2001-11540	CG	20030704	BR-2001-11540	20010606	200101154
JP 2003535958	T2	20031202	JP 2002-502054	20010606	
US 2005020473	A1	20050127	US 2003-297575	20030626	
PRIORITY APPLN. INFO.:			EP 2000-112375	A	20000609
			WO 2001-EP6403	W	20010606

OTHER SOURCE(S): MARPAT 136:39158

AB A liquid all-purpose composition suitable for hard surface cleaning, composed by (a) nonionic surfactants at 0-40% and/or anionic surfactants at 0-3% (b) a cationic surfactant or association of cationic surfactants at 0-30% (c) optionally amphoteric surfactants at 0-20%. Thus, a composition comprising Genapol C 070, Praepagen HY, sodium tripolyphosphate, water, perfume, colorant, and preservative gave an all-purpose cleaner.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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